

HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

RA-4W CHASSIS

<u>MODEL NAME</u>	<u>REMOTE COMMANDER</u>	<u>DESTINATION</u>	<u>CHASSIS NO.</u>
KP-57XBR10W	RM-Y907	US	SCC-P58A-A
KP-57XBR10W	RM-Y907	Canadian	SCC-P58A-A
KP-65XBR10W	RM-Y907	US	SCC-P58B-A
KP-65XBR10W	RM-Y907	Canadian	SCC-P58B-A

ORIGINAL MANUAL ISSUE DATE: 11/2000

ANY REVISIONS AND UPDATES TO THE ORIGINAL MANUAL ARE APPENDED TO THE END OF THE PDF FILE.

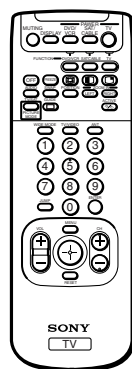
<u>REVISION DATE</u>	<u>REVISION TYPE</u>	<u>SUBJECT</u>
5/2001	Supplement-1	Adjustment Procedure Update

TRINITRON® COLOR TELEVISION
SONY®

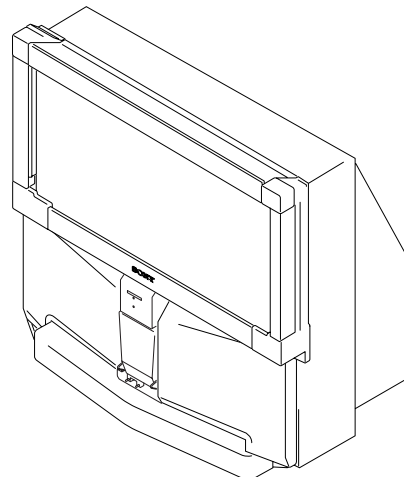
SERVICE MANUAL RA-4W CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KP-57XBR10W	RM-Y907	US	SCC-P58A-A
KP-57XBR10W	RM-Y907	Canadian	SCC-P58A-A
KP-65XBR10W	RM-Y907	US	SCC-P58B-A
KP-65XBR10W	RM-Y907	Canadian	SCC-P58B-A

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
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RM-Y907



KP-57XBR10W, 65XBR10W

* Please file according to model size. ☐

57 65

PROJECTION TV
SONY®

SPECIFICATIONS

Projection system

3 picture tubes, 3 lenses, horizontal in- line system

Picture tube

7- inch high- brightness monochrome tubes (6. 3 raster size),
with optical coupling and liquid cooling system

Projection lenses

High performance, large diameter hybrid lens F1. 1

Television system

American TV standard

Channel coverage

VHF: 2– 13/ UHF: 14 –69/ CATV: 1 – 125

Antenna

75 ohm external terminal for VHF/ UHF

Screen size (measured diagonally)

57 inches (KP- 57XBR10W)

65 inches (KP- 65XBR10W)

Inputs/ outputs

VIDEO 1/ 3 IN

VIDEO 2 INPUT

S VIDEO IN (4- pin mini DIN):

Y: 1 Vp- p, 75- ohms unbalanced, sync negative

C: 0.286 Vp- p (Burst signal), 75 ohms

VIDEO (phono jack): 1 Vp- p, 75- ohms unbalanced, sync
negative

AUDIO (phono jacks): 500 mVrms (100% modulation),

Impedance: 47 kilohms

VIDEO 4 IN

S VIDEO IN (4- pin mini DIN):

Y: 1 Vp- p, 75- ohms unbalanced, sync negative

C: 0.286 Vp- p (Burst signal), 75 ohms

VIDEO (phono jack): 1 Vp- p, 75- ohms unbalanced, sync
negative

AUDIO (phono jacks): 500 mVrms (100% modulation),

Impedance: 47 kilohms

Y: 1 Vp- p, 75 ohms, sync negative

P_B : 0. 7 Vp- p, 75 ohms

P_R : 0. 7 Vp- p, 75 ohms

VIDEO 5 (DTV) IN

Maximum scanning rate: 1080i

Y: 1 Vp- p, 75 ohms, negative or tri- level sync

P_B : 0.7 Vp- p, 75 ohms

P_R : 0.7 Vp- p, 75 ohms

or

G: 0.7 Vp- p

B: 0.7 Vp- p

R: 0.7 Vp- p

HD: 0.5– 5 Vp- p, 2.2 kilohms

VD: 0.6– 5 Vp- p, 2.2 kilohms

Note:

The VIDEO 5 (DTV) IN jacks are not compatible with a
computer's 5BNC (R/ G/ B/ HD/ VD) video output connectors.

AUDIO (phono jacks): 500 mVrms (100% modulation),

Impedance: 47 kilohms

SELECT OUT

VIDEO (phono jack): 1 Vp- p, 75- ohms unbalanced, sync
negative

AUDIO (phono jacks): 470 mVrms (100% modulation),

Impedance: 47 kilohms

AUDIO (VAR) OUT (phono jacks): 950 mVrms (100%
modulation)

AUDIO (FIX) OUT (phono jacks): 500 mVrms (100%
modulation)

CONTROL S IN/ OUT: minijacks

Speaker

Tweeter: 100 mm (4") 2

Woofer: 160 mm (6 3/8") 2

Center: 100 mm (4") 2

Speaker output

Front: 20 W 2

Center: 20 W 1

Rear: 20 W 2

Power requirement

120 V AC, 60 Hz

Power consumption

In use (Max.): 300 W

In standby: 1 W

Dimensions (W/ H/ D)

1,380 x 1,400 x 680 mm (54 3/8 x 55 1/8 x 26 7/8 inches)
(KP- 57XBR10W)

1,558 x 1,574 x 735 mm (61 3/8 x 62 x 29 inches)
(KP- 65XBR10W)

Mass

126 kg (277 lbs 12 oz) (KP- 57XBR10W)

148 kg (326 lbs 4 oz) (KP- 65XBR10W)

Supplied accessories

Remote control: RM- Y907 (1)

Batteries size: AA (R6) (2)

Optional accessories

Connecting cables:

RK- G34, RK- 74A, RKG- 69HG, VMC- 10HG, VMC-
720M, VMC- 810S/ 820S, YC- 15V/ 30V

U/V mixer: EAC- 66

Rear speakers: SS- MB115

AV receiver: STR- V555ES

Design and specifications are subject to change without
notice.

SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

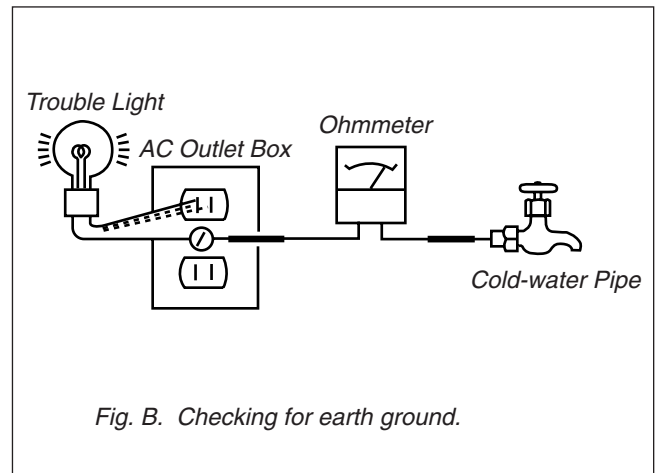
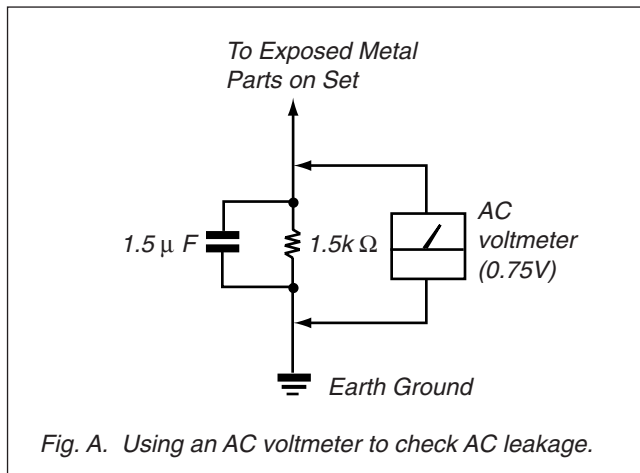
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



SELF DIAGNOSIS FUNCTION

1. Summary of Self-Diagnosis Function

- This device includes a self-diagnosis function.
- In case of abnormalities, the TIMER/STAND BY indicator automatically blinks. It is possible to predict the abnormality location by the number of blinks. The Instruction Manual describes blinking of the TIMER/STAND BY indicator.
- If the symptom is not reproduced sometimes in case of a malfunction, there is recording of whether a malfunction was generated or not. Operate the remote command to confirm the matter on the screen and to predict the location of the abnormality.

2. Diagnosis Items and Prediction of Malfunction Location

- When a malfunction occurs the TIMER/STAND BY indicator only blinks for one of the following diagnosis items. In case of two or more malfunctions, the item which first occurred blinks. If the malfunctions occurred simultaneously, the item with the lower blink count blinks first.
- The screen display displays the results regarding all the diagnosis items listed below. The display “0” means that no malfunctions occurred.

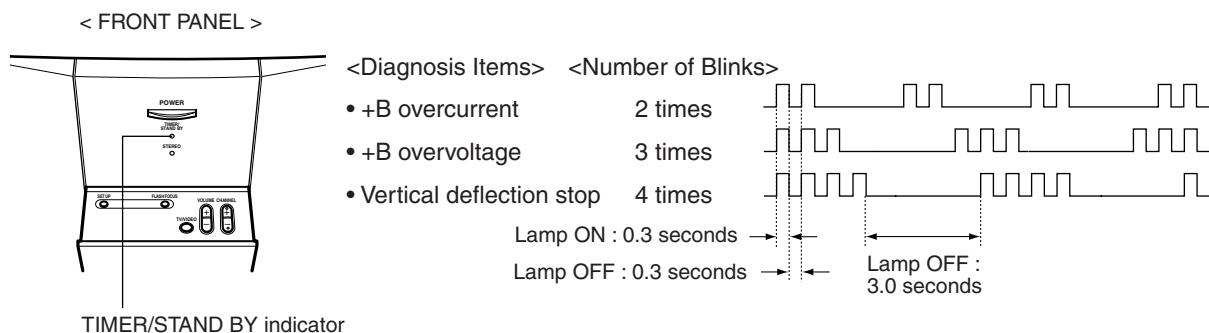
Diagnosis item	TIMER/STANDBY Indicator Number of blinks	Supposed malfunction	Condition	Self-diagnosis screen display, Diagnosis item: Results
• Power not ON	0	[Standby Power Supply System] F6001 open. R6012 open. IC6001 is broken. [Main Power Supply System] F6002 open. IC6002, 6003 and Q6004, 6007, 6008 are broken. VD6001, 6002 short-circuit.	Cannot turn on the power. LED doesn't blink.	
+B OCP detection	2 times	Short circuit of power supply system in each circuit.	Goes to the standby mode Short circuit of +B line	2 : +B OCP 000
+B OVP detection	3 times	IC6005 is broken. IC6101 is broken.	Goes to the standby mode Malfunction of power supply circuit	3 : +B OVP 000
Vertical deflection stop	4 times	IC5004(V out) is broken. IC512 (VDSP) is broken.	Raster goes to one line horizontally.	4 : V Stop 000
Video out abnormality detection	5 times	Video out, IC7101, 7201, 7301 and others in CR.CG and CB boards circuit. Q510,516,524 (A board)	TIMER/STANDBY LED blinks approx. 30 seconds, and then blinks for the self diagnosis.	5 : AKB 000
Horizontal deflection stop	6 times	Q5013 (H OUT) is broken. IC507 (H Jungle) is broken.	Raster doesn't appear.	6 : H Stop 000
High voltage abnormality detection	7 times	Q8008 is broken	Raster doesn't appear.	7 : HV 000
Audio abnormality detection	8 times	IC2601, 2602, 2603 are broken. PS6103, 6104 are broken.	The sound is not out. Goes to the standby mode	8 : Audio 000

* : 000 the range of values for number of operations is 000-255. For 256 or higher there is no count up and the number remains at 255.

3. Blinking count display of TIMER/STAND BY indicator

* One blink is not used for self-diagnosis.

•EXAMPLE



Release of TIMER/STAND BY indicator blinking.

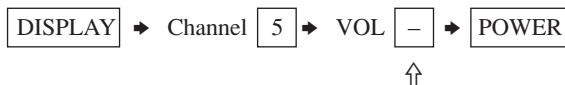
- The TIMER/STAND BY indicator blinking display is released by turning OFF the power switch on the TV main unit or removing the plug from the power.

4. Self-diagnosis screen displays

- In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

<Screen Display Method>

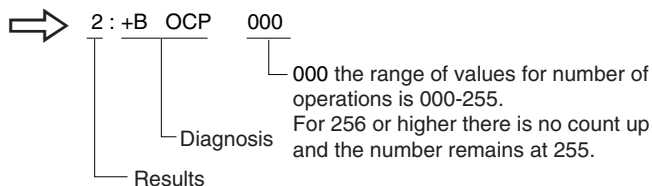
- Quickly press the remote command button in the following order from the standby state.



Be aware that this differs from the method of entering the service mode (volume +).

Self-diagnosis screen display

Self Check		
2 : +B	OCP	000
3 : +B	OVP	000
4 : V	Stop	000
5 : AKB		000
6 : H	Stop	000
7 : HV		000
8 : Audio		000
9 : WDT		000



5. Self-Diagnosis Screen Display

- The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to “0”.
- If the results display is not returned to “0” it will not be possible to judge a new malfunction after completing repairs.

<Method of Clearing Results Display>

- Power off (Set to the standby mode)
- DISPLAY → Channel 5 → VOL + → POWER (Service Mode)
- Channel 8 → ENTER (Test reset = Factory preset condition)

<Method of Ending Self Diagnosis Screen>

- When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.

6. Self-diagnosis function operation

- OCF** Low B and +B line detect DET SHORT, and shut-down POWER ON RELAY.
Reset by turning power on/off.
In case of +B is loaded approx. 1.5A or more, microcomputer detects it via IC6102.
- OVP** In case of +B becomes approx. 150V or more, POWER ON RELAY shuts down and microcomputer detects it via IC6102.
Reset by turning power on/off just the same as OCF.
- V Stop** In case of V Drive disappeared, Q5005 detects it and shut-down POWER ON RELAY. Microcomputer detects it and makes LED blinking.
- AKB** IK detection. Makes LED blinking in case of microcomputer doesn't detect IK returns of IC511 (CXA2101AQ) 30 seconds or more.
- H Stop** In case of H DRIVE is disappeared, Q5006 detects it and shut-down POWER ON RELAY shuts down.
Microcomputer receives H Stop data from Q5006 and makes LED blinking.
- HV Stop** In case of HV becomes 33KV or more. IC8006 and IC8010 detect it and shut-down POWER ON RELAY. Microcomputer makes LED blinking.
- Audio** In case of DC component overlaps the output of Audio Amp., POWER ON RELAY shuts down.
Microcomputer detects it and makes LED blinking.

Self-diagnosis block diagram

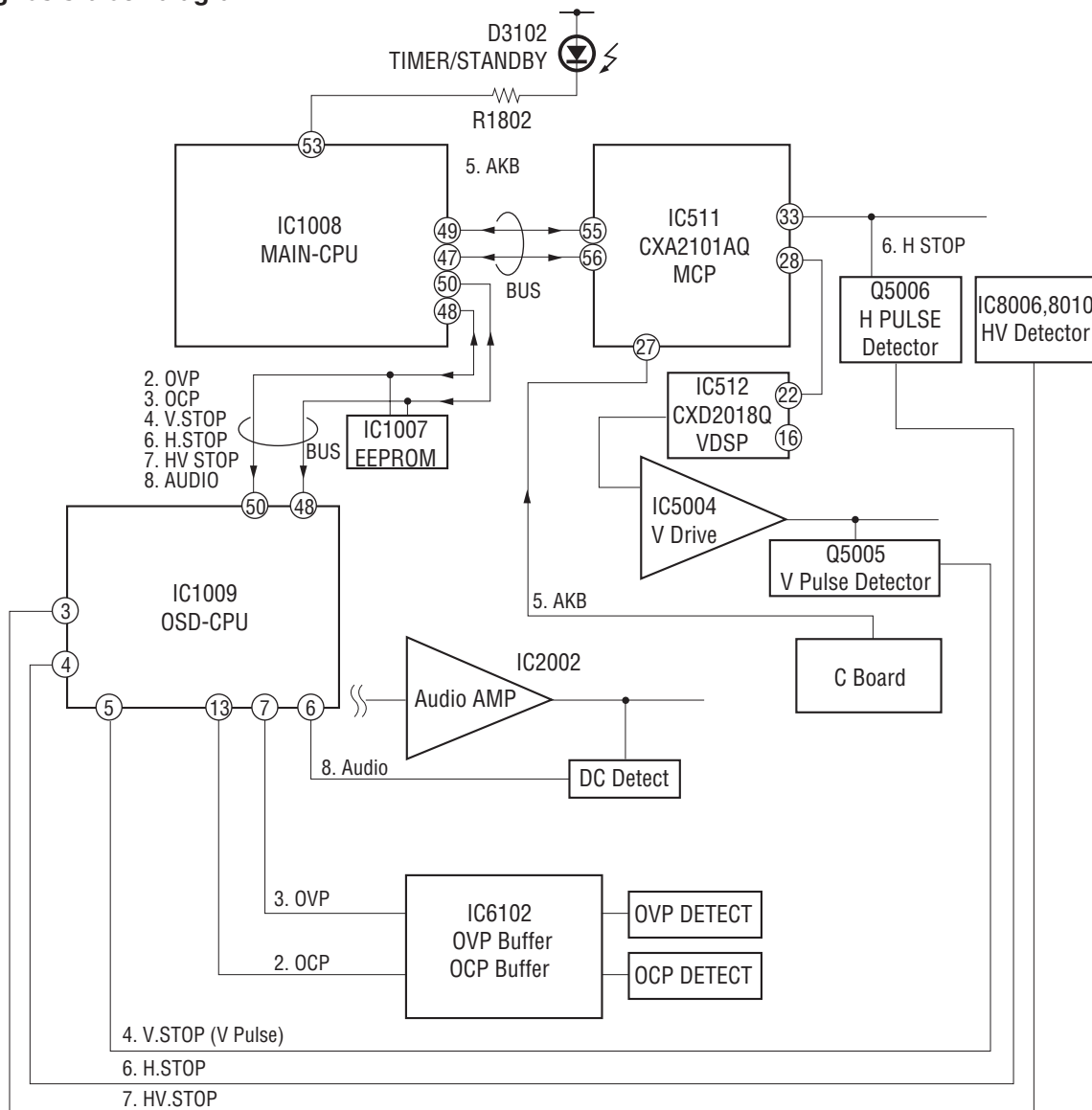


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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE DE ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DEPANNAGE.

LE CHÂSSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA
SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE $\triangle$ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1

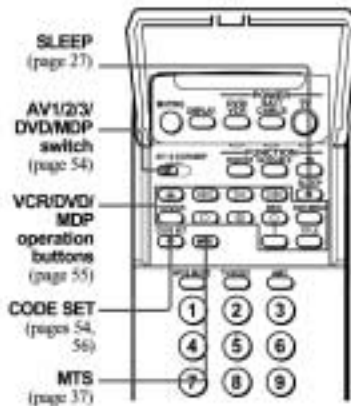
GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in the manual. (Part no : 4-080-199-11)

Remote Control

In the instructions that follow, we will refer to the buttons on your remote control. Keep this flap unfolded and use this page for reference.

For a detailed explanation of most buttons, see "Watching the TV" on page 26.



Getting to know the buttons on the remote control

Names of the buttons on the remote control are presented in different colors to represent the available functions.

Button color

Black: Press to select the component you want to control; e.g. VCR/MDP/DVD Player, SAT/CABLE, or projection TV.

Green: Buttons relevant to power operations, like turning the projection TV, SAT/CABLE, or VCR/MDP/DVD Player on or off

Label color

White: TV/VCR/MDP/DVD Player/SAT/CABLE operation buttons

Yellow: PIP, P&P, and CHANNEL INDEX operation buttons

Blue: SAT operation buttons

Pink: DVD Player operation buttons

Before You Begin

Welcome!

Thank you for purchasing the Sony Projection TV. This manual is for models KP-57XBR10W and KP-65XBR10W.

Model KP-57XBR10W is used for illustration purposes.

The features you will enjoy include:

- "1080i Capable," enabling you to receive the 1080i, 720p, 480p and 480i digital TV formats. By using the VIDEO 5 (DTV) IN jacks, you can connect a DTV (digital television) receiver to view DTV programs. The VIDEO 5 (DTV) IN jacks also function as R/G/B connectors with SYNC signal (HD/VD), but are not compatible with a computer's SBNC video output connectors.
- WIDE SCREEN MODE, allowing you to watch 4:3 normal broadcasts in wide screen mode (16:9 aspect ratio).
- AUTO WIDE, allowing you to select the wide screen mode automatically.
- PARENTAL CONTROL, enabling you to block programs that are unsuitable for your children.
- DRC (Digital Reality Creation), a technology unique to Sony, allowing you to obtain a finer, more detailed picture with four-times higher density than the conventional NTSC picture. (not available for input from the VIDEO 5 (DTV) IN jacks)

- MID (Multi Image Driver), a newly developed device, allowing you to enjoy the following features and, at the same time, to use your projection TV easily. (not available for input from the VIDEO 5 (DTV) IN jacks)
 - Picture & Picture (P&P) with zoom-in function (Twin View™)
 - Picture-in-Picture (PIP)
 - CHANNEL INDEX, allowing you to view and choose from twelve programs
 - FAVORITE CHANNEL, allowing you to view and choose from eight of your favorite channels
- FLASH FOCUS, allowing you to adjust convergence automatically.
- Two Y/Pa/Ps inputs for DVD Player connection (480p format capability is on the VIDEO 5 (DTV) IN jacks).
- Four AUDIO/VIDEO/S VIDEO inputs.

Before You Begin

Using this Manual

We recommend that you carefully review the contents of the following four sections in the order provided to ensure that you fully understand the operation of your new projection TV.

1 Installing and Connecting the Projection TV

This section guides you through your initial set up. It shows you how to install your projection TV, to connect your new components and to connect to the antenna and cable.

2 Basic Setup

This section teaches you the basic skills needed to operate your new projection TV, including Easy Set Up. It shows you how to operate the remote control's special functions.

3 Using Your New Projection TV

This section shows you how to begin using your new projection TV. It shows you how to use your remote control's features.

4 Adjusting Your Set Up (menus)

This section teaches you how to access on-screen menus and adjust your projection TV's settings.

Instructions in this manual are written for the remote control. Similar controls may be found on the projection TV console.

Precautions

Safety

- Operate the projection TV only on 120 V AC.
- The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If any liquid or solid object should fall inside the cabinet, unplug the projection TV immediately and have it checked by qualified service personnel before operating it further.
- If you will not be using the projection TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.

For details concerning safety precautions, see "Important Safeguards" on page 3.

Note on cleaning

Clean the cabinet of the projection TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with solution of mild soap and warm water. Never use strong solvents such as thinner or benzene for cleaning.

If the picture becomes dark after using the projection TV for a long period of time, it may be necessary to clean the inside of the projection TV. Consult qualified service personnel.

Installing

- To prevent internal heat buildup, do not block the ventilation openings.
- Do not install the projection TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- Avoid operating the projection TV at temperature below 5°C (41°F).
- If the projection TV is transported directly from a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color. In this case, please wait a few hours to let the moisture evaporate before tuning on the projection TV.
- To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the projection TV in a room where the floor and walls are not of a reflective material.

Important Safeguards

For your protection, please read these instructions completely, and keep this manual for future reference.

Carefully observe and comply with all warnings, cautions and instructions placed on the set, or described in the operating instructions or service manual.

WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use, and servicing of the set.

Use

Power Sources

This set should be operated only from the type of power source indicated on the serial/model plate. If you are not sure of the type of electrical power

supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, refer to the operating instructions.

Grounding or Polarization

This set is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:



For the set with a polarized AC power cord plug

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.



Alternate Warning
For the set with a three-wire grounding type AC plug

This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.



Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.

Always turn the set off when it is not to be used. When the set is left unattended and unused for long periods of time, unplug it from the wall outlet as a precaution against



the possibility of an internal malfunction that could create a fire hazard.



Object and Liquid Entry

Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.



Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards.



Cleaning

Unplug the set from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water for cleaning the exterior of the set.

(continued)



If a snapping or popping sound from a projection TV set is continuous or frequent while the projection TV is operating, unplug the projection TV and consult your dealer or service technician. It is normal for some projection TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.

Installation



Water and Moisture
Do not use power-line operated sets near water—for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement or near a swimming pool, etc.



Accessories
Do not place the set on an unstable cart, stand, table or shelf. The set may fall, causing serious injury to a child or an adult, and serious damage to the set. Use only a cart or stand recommended by the manufacturer for the specific model of projection TV.



An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

Ventilation

The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.



- Never cover the slots and openings with a cloth or other materials.



- Never block the slots and openings by placing the set on a bed, sofa, rug or other similar surface.



- Never place the set in a confined space, such as a bookcase, or built-in cabinet unless proper ventilation is provided.



- Do not place the set near or over a radiator or heat register, or where it is exposed to direct sunlight.



Power-Cord Protection
Do not allow anything to rest on or roll over the power cord, and do not place the set where the power cord is subject to wear or abuse.

Antennas

Outdoor Antenna Grounding — If an outdoor antenna is installed, follow the precautions below.

An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Antenna Grounding According to the NEC

Refer to section 54-300 of Canadian Electrical Code for Antenna Grounding.



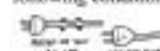
Lightning

For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.

Service

Damage Requiring Service

Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:



- When the power cord or plug is damaged or frayed.



- If liquid has been spilled into the set.



- If the set has been exposed to rain or water.



- If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.



- If the set does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions.

Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.

- When the set exhibits a distinct change in performance—this indicates a need for service.



Servicing

Do not attempt to service the set yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Replacement Parts

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock, or other hazards.



Safety Check

Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition, and to so certify.

When the set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the set.



Installing and Connecting the Projection TV

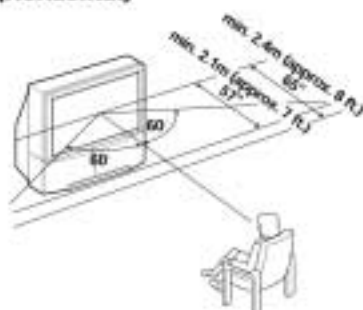
Carrying Your Projection TV

Carrying the projection TV requires three or more people.

The projection TV has been equipped with casters for easy movement on a hard surface. Please move your projection TV using the casters.

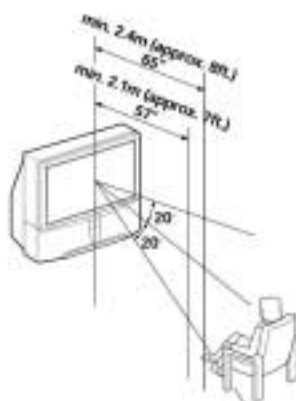
Installing the Projection TV

Recommended viewing area (Horizontal)



6

Recommended viewing area (Vertical)



Mounting the Rear Speakers (not supplied)

For enhanced surround effect, connect the rear speakers to your projection TV.

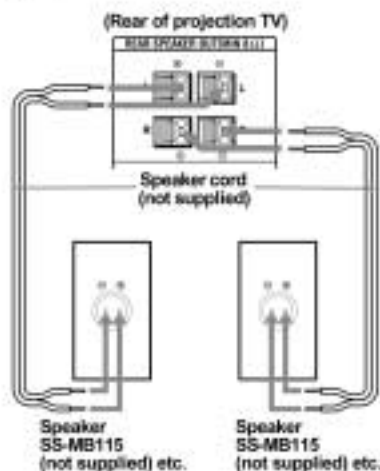
Connecting the rear speakers

Using the speaker cords, connect REAR SPEAKER OUT L on your projection TV to the speaker terminal on one rear speaker, and connect

REAR SPEAKER OUT R to the terminal on the other one.

Note:

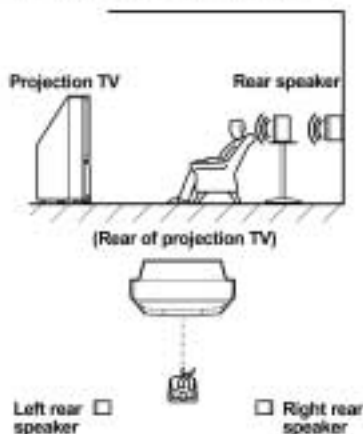
- When you use a speaker other than one that we recommend, use a speaker with maximum input power of more than 20 W and impedance of 8 ohms.



Installation

For optimum surround effect, mount the rear speakers in the following places (as shown in the illustration):

- on a wall, as high as the listener's ears.
- on a table, as high as the listener's ears.



Connector Types

You may find it necessary to use some of the following connector types during set up.

Coaxial cable

Standard TV cable and antenna cable

Plug Type

Push into connection.

Screw-on Type

Screw into connection.

S Video cable

High quality video cable for enhanced picture quality

Align guides and push into connection.

Audio/Video cable

Push into connection.

Video - Yellow
Audio (Left) - White
Audio (Right) - Red

Some DVD Players are equipped with the following three video connectors.

Y - Green
Pb (Cb, Cb or B-Y) - Blue
Pr (Cr, Cr or R-Y) - Red

Component video cable for a DTV receiver

Push into connection.

G/Y - Green
B/Pb - Blue
R/Pr - Red
HD - Gray
VD - Black

CONTROL S cable

Sony cable for CONTROL S connections. These features are exclusive to Sony products and allow greater control of all Sony equipment.

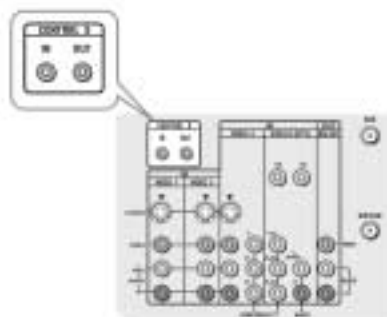
Push into connection.

(continued)

About the CONTROL S IN/OUT jacks

To control other Sony equipment with the projection TV's remote control, connect the CONTROL S IN jack of the equipment to the CONTROL S OUT jack on the projection TV with the CONTROL S cable.

To control the projection TV with a remote control for another Sony product, connect the CONTROL S OUT jack of the equipment to the CONTROL S IN jack on the projection TV with the CONTROL S cable.



Making Connections

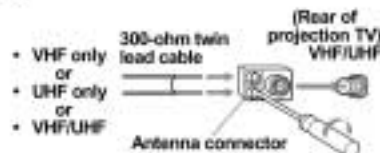
Connecting Directly to a Cable or an Antenna

The connection you choose will depend on the cable found in your home. Newer homes will be equipped with standard coaxial cable (see **A**); older homes will probably have 300-ohm twin lead cable (see **B**); still other homes may contain both (see **C**).

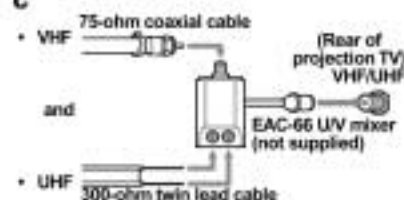
A



B



C



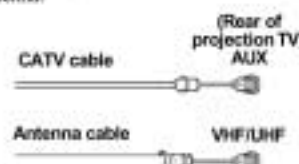
Cable or antenna

This is the simplest connection. Connection is made directly from the cable or antenna to the projection TV.



Cable and antenna

You may find it convenient to use the following set up if your cable provider does not feature local channels that you are able to receive using an antenna.



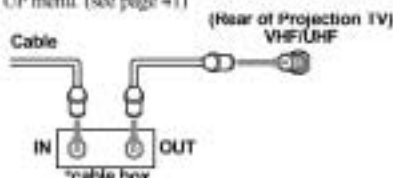
Select Cable or ANT mode by pressing ANT on the remote control.

8

Connecting a Cable Box

Some pay cable TV systems use scrambled or encoded signals that require a cable box* to view all channels.

Also, set CABLE to ON in the CHANNEL SET UP menu. (see page 41)

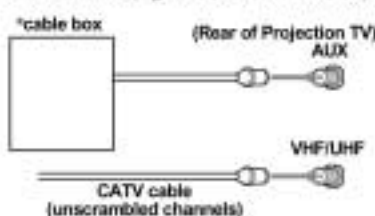


Note:

- If you will be controlling all channel selection through your cable box, you should consider using the CHANNEL FIX feature. (see "CHANNEL FIX" on page 42)

Cable box and cable

Some pay cable TV systems use scrambled or encoded signals requiring a cable box* only for certain channels (e.g. HBO, SHOWTIME, etc.)



For this set up, you can switch between scrambled channels (through your cable box), and normal (CATV) channels by pressing ANT on your remote control.

Notes:

- You may be able to program your Sony remote control to operate your cable box. (see "Operating a Cable Box or Satellite Receiver (SAT)" on page 56)
- During PIP, P&P, CHANNEL INDEX or FAVORITE CHANNEL viewing, the AUX input can only be viewed in the main picture.
- If you are connecting a cable box through the AUX input and would like to switch between the AUX and normal (CATV) input, you should consider using CHANNEL FIX. (see "CHANNEL FIX" on page 42)

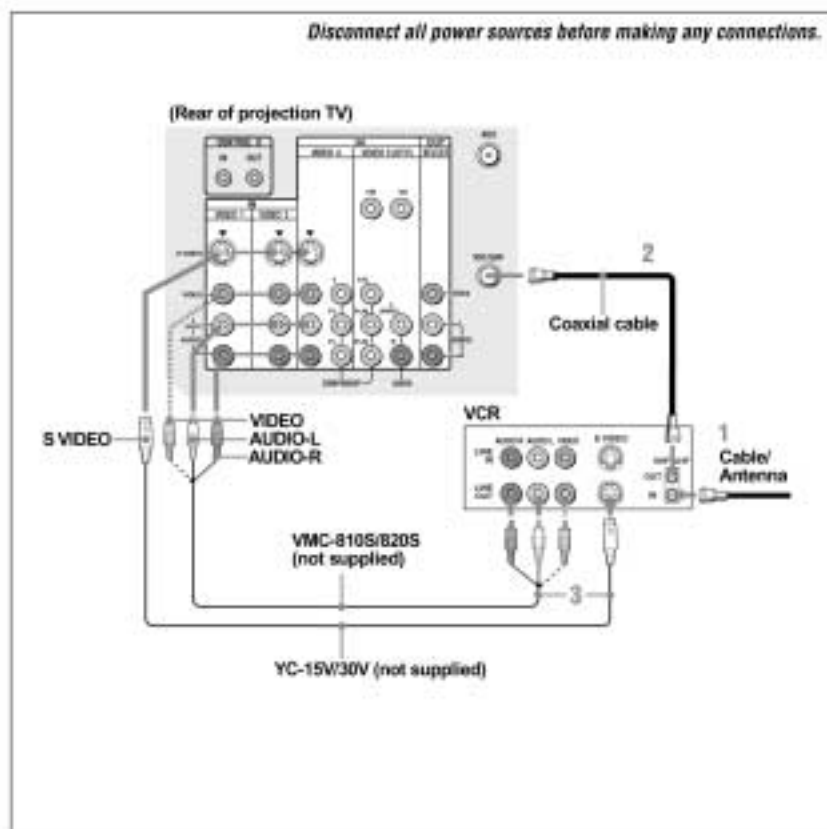
9

Connecting an Antenna/Cable TV System to a VCR

- 1 Attach the coaxial cable from the incoming cable connection or antenna to IN on the VCR.
 - 2 Using a coaxial cable, connect OUT on the VCR to VHF/UHF on the projection TV.
 - 3 Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the VCR to AUDIO and S VIDEO IN on the projection TV (White-AUDIO Left, Red-AUDIO Right).
- * If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Note:

- If you are connecting a monaural VCR, connect only the single audio output to the left (MONO) input on the projection TV.



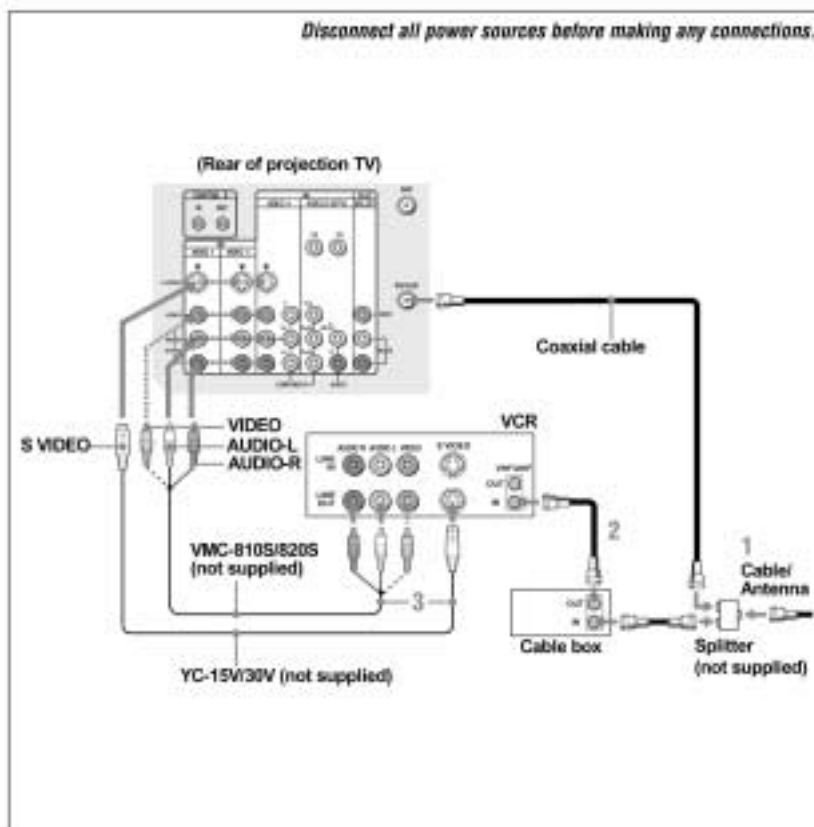
10

Connecting a VCR and Projection TV to a Cable Box

- 1 Connect the single (input) jack of the splitter to the incoming cable connection, and connect the other two (output) jacks (using the coaxial cable) to IN on the cable box and VHF/UHF on the projection TV.
 - 2 Using a coaxial cable, connect OUT on the cable box to IN on the VCR.
 - 3 Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the VCR to AUDIO and S VIDEO IN on the projection TV (White-AUDIO Left, Red-AUDIO Right).
- * If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Note:

- To view scrambled channels through the cable box, select the video input which the cable box is connected to by pressing TV/VIDEO.



11

Connecting a DTV (Digital Television) Receiver

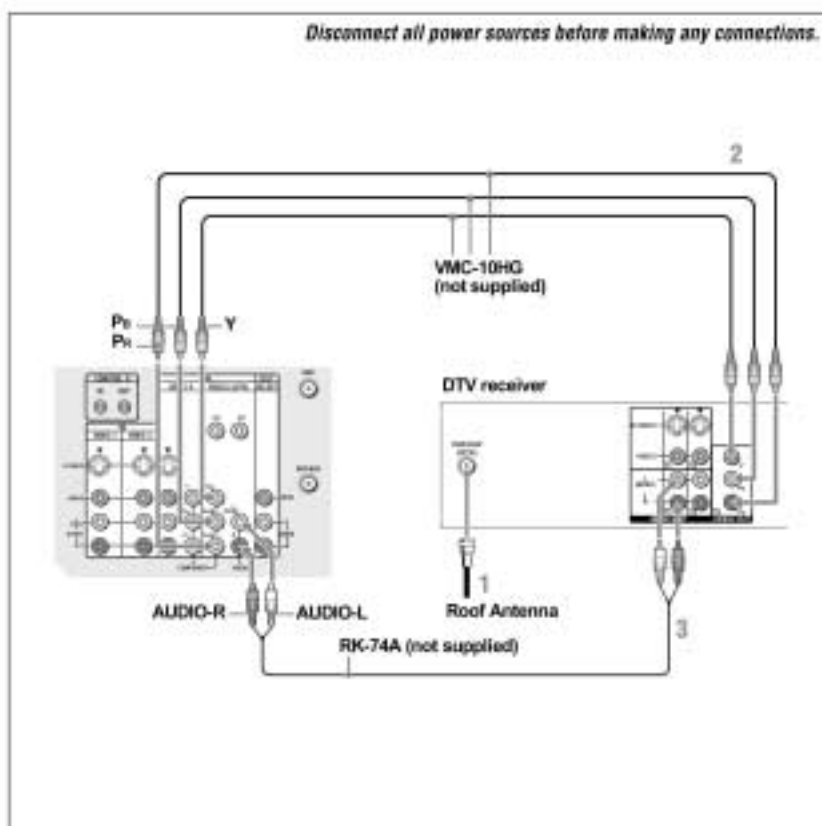
Before connecting, be sure to read the Operating Instructions of the DTV receiver.

Connecting a DTV (digital television) receiver with the Y/Pb/Ps (component video input) jacks

- 1 Attach the coaxial cable from the roof antenna to VHF/UHF on the DTV receiver.
- 2 Using three VIDEO cables, connect Y, Pb and Ps of COMPONENT VIDEO OUT on the DTV receiver to Y, Pb and Ps of VIDEO 5 (DTV) IN on the projection TV.
- 3 Using an AUDIO cable, connect LINE OUT on the DTV receiver to AUDIO of VIDEO 5 (DTV) IN on the projection TV (White-AUDIO Left, Red-AUDIO Right).
- 4 Select VIDEO 5 by the TV/VIDEO button.
- 5 Select the SET UP menu and set DTV INPUT to Y PB PR. (see "DTV INPUT" on page 47)

Note:

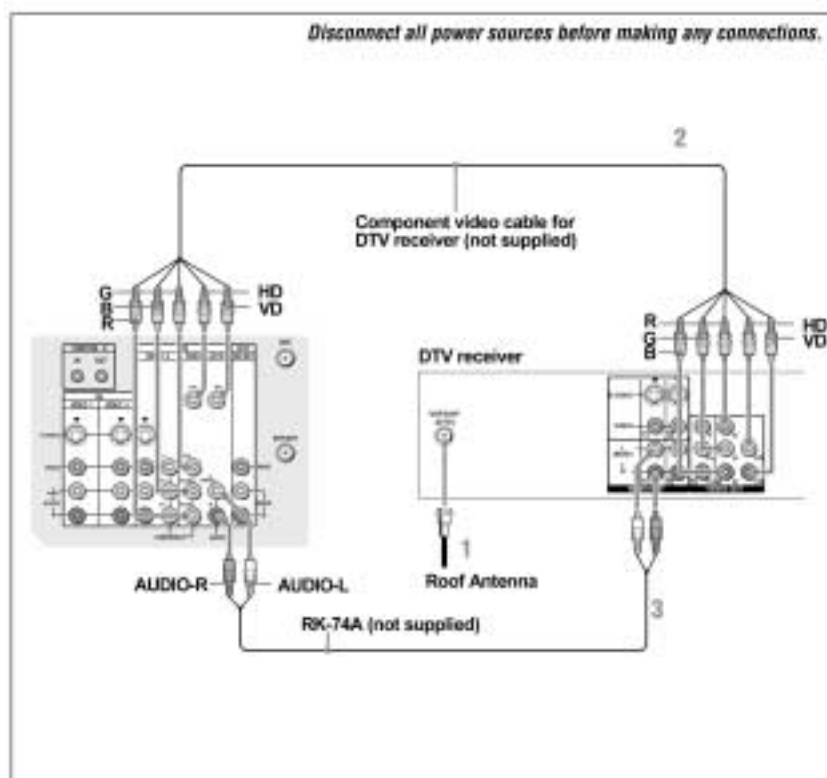
- Some DTV receiver terminals may be labeled differently. If so, connect as follows:
Connect Y (green) to Y.
Connect Pb (blue) to Cb, Cb or B-Y.
Connect Ps (red) to Cr, Cr or R-Y.



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Connecting a DTV (digital television) receiver with the G/B/R/HD/VD jacks

- 1 Attach the coaxial cable from the roof antenna to VHF/UHF on the DTV receiver.
- 2 Using a component video cable for DTV receiver, connect G, B, R, HD and VD of VIDEO OUT on the DTV receiver to G, B, R, HD and VD respectively of VIDEO 5 (DTV) IN on the projection TV. If the DTV receiver is equipped with the Y/Pb/Ps jacks, proceed to step 2 in "Connecting a DTV (digital television) receiver with the Y/Pb/Ps (component video input) jacks on page 12.
- 3 Using an AUDIO cable, connect AUDIO OUT on the DTV receiver to AUDIO of VIDEO 5 (DTV) IN on the projection TV (White-AUDIO Left, Red-AUDIO Right).
- 4 Select VIDEO 5 by the TV/VIDEO button.
- 5 Select the SET UP menu and set DTV INPUT to R.G.B. (see "DTV INPUT" on page 47)



Installing and Connecting the Projection TV

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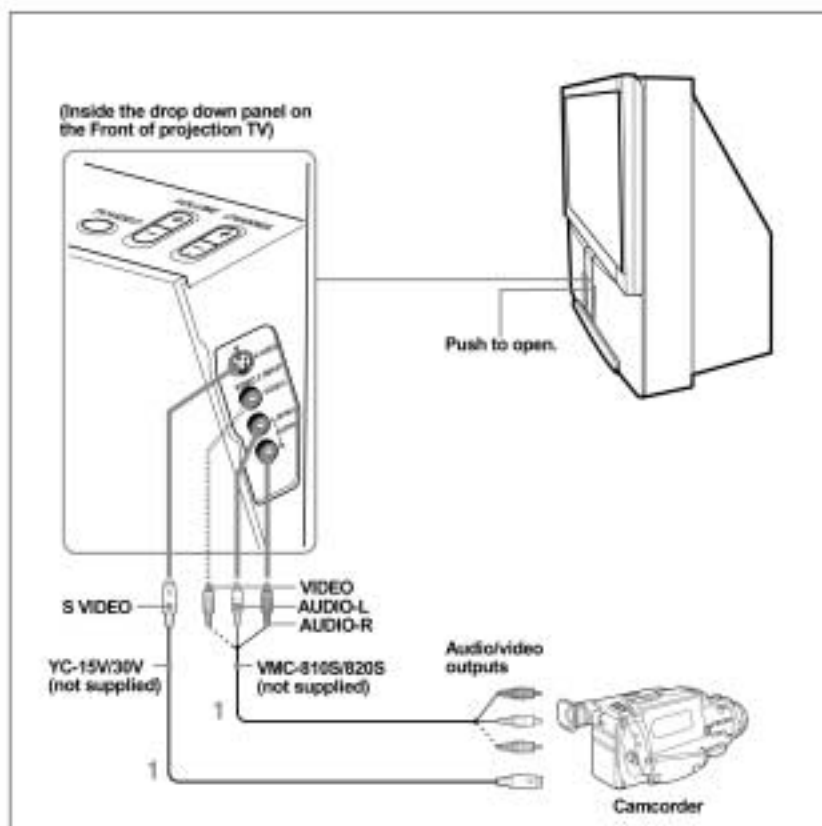
Connecting a Camcorder

Use this connection to view a picture directly from your camcorder.

- 1 Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the camcorder to AUDIO and S VIDEO IN on the right side panel inside the drop-down panel on the front of the projection TV (White-AUDIO Left, Red-AUDIO Right**).
- 2 Press VIDEO 2 to select the video inputs from a camcorder.

* If your camcorder is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

**If you are connecting a monaural camcorder, connect only the single audio output to the left (MONO) input on the projection TV.



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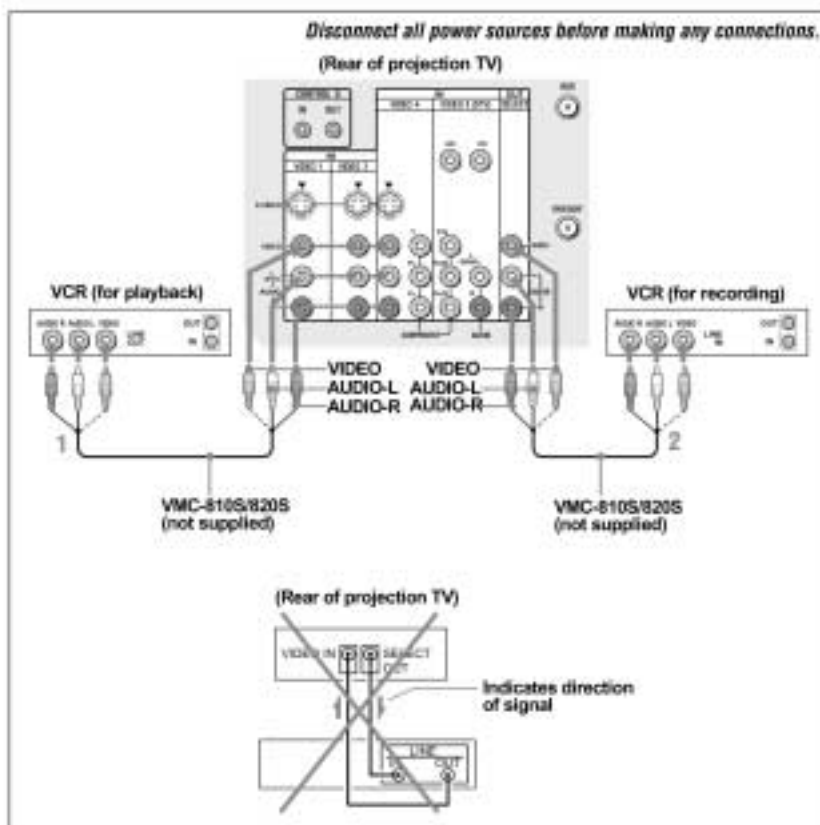
Connecting Two VCRs for Tape Editing

SELECT OUT allows you to use a second VCR to record a program being played by the primary VCR or to perform tape editing and dubbing.

- 1 Connect the VCR intended for playback using the connection instructions on page 10 of this manual.
- 2 Using an AUDIO/VIDEO cable, connect AUDIO and VIDEO IN on the VCR intended for recording to AUDIO and VIDEO OUT of SELECT OUT on the projection TV.

Notes:

- Do not change the input signal while editing through SELECT OUT.
- When connecting a single VCR to the projection TV: if VCR LINE OUT is connected to VIDEO IN on the projection TV, do not connect the SELECT OUT on the projection TV to the VCR LINE INPUT (see right). Doing so will cause program interference and other viewing problems.
- You can select the output signal from SELECT OUT of the SET UP menu. (see "SELECT OUT" on page 45)
- When the projection TV turns off, the signal is not output through SELECT OUT.



Installing and Connecting the Projection TV

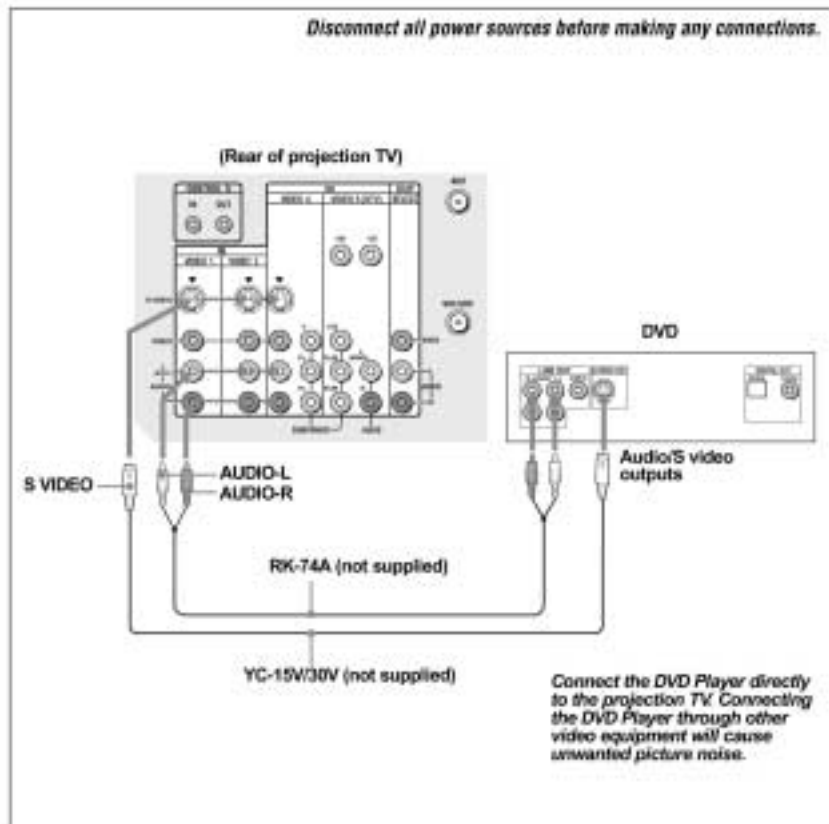
17

Connecting a DVD Player With S Video or Composite Video Output Connectors

Using an AUDIO and S VIDEO cables, connect AUDIO and S VIDEO IN on the projection TV to AUDIO and S VIDEO OUT on the DVD Player (White-AUDIO Left, Red-AUDIO Right).

Note:

- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust NR in the VIDEO menu. (see "NR" on page 37)



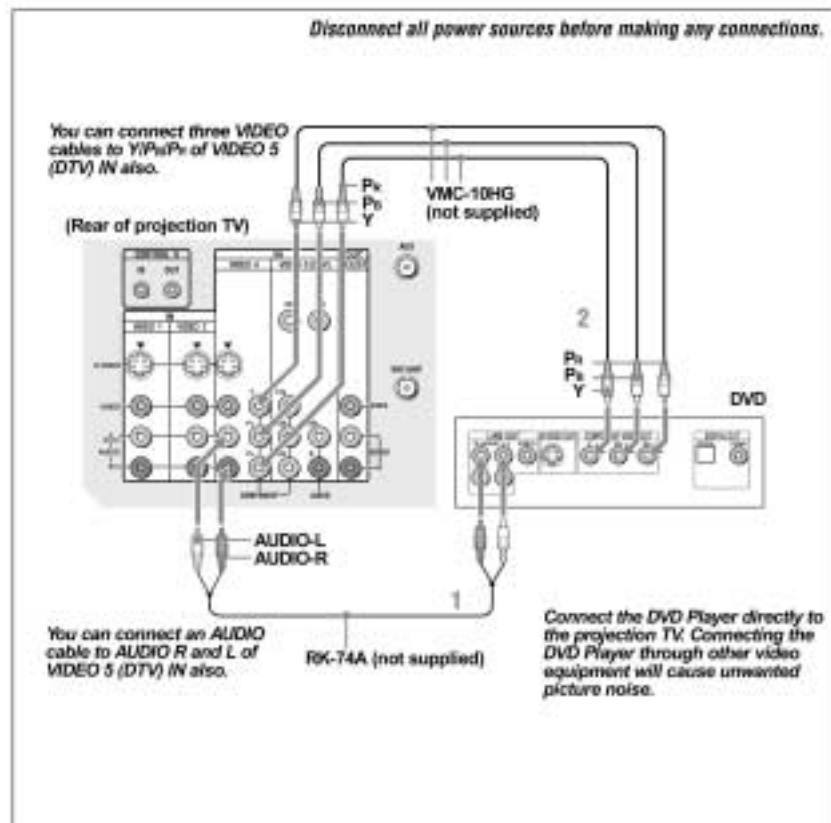
18

Connecting a DVD Player With Component Video Output Connectors

- Using an AUDIO cable, connect AUDIO R and L of LINE OUT on the DVD Player to AUDIO R and L of VIDEO 4 IN or VIDEO 5 (DTV) IN on the projection TV (White-AUDIO Left, Red-AUDIO Right).
- Using three VIDEO cables, connect Y, Pb and Pr of the COMPONENT VIDEO OUT on the DVD Player to Y, Pb and Pr of VIDEO 4 IN or VIDEO 5 (DTV) IN on the projection TV.

Notes:

- If your DVD Player has 480p format capability, connect it to the Y, Pb and Pr of VIDEO 5 (DTV) IN on the projection TV.
- Some DVD Player terminals may be labeled differently. If so, connect as follows:
Connect Y (green) to Y.
Connect Pb (blue) to Cb, Cs or B-Y.
Connect Pr (red) to Ca, Cr or R-Y.
- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust NR in the VIDEO menu. (see "NR" on page 37)



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Connecting an AV Receiver

For greater control of all audio and video equipment, connect an AV receiver.

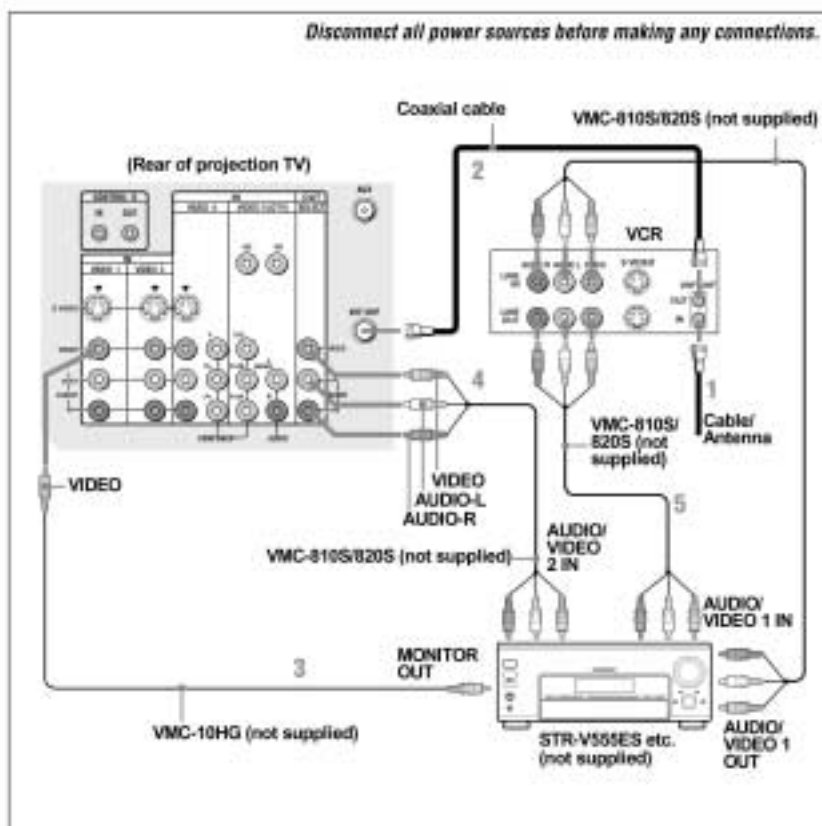
1-2 Perform as described on page 10.

- 3 Using a VIDEO cable, connect VIDEO 1 IN on the projection TV to MONITOR OUT on the AV receiver.
- 4 Using an AUDIO/VIDEO cable, connect SELECT OUT on the projection TV to VIDEO 2 IN on the AV receiver.
- 5 Using an AUDIO/VIDEO cable, connect the video equipment to the AV receiver.
- 6 Select the SET UP menu and set SELECT OUT to TV OUT. (see "SELECT OUT" on page 45)

Note:

- You may want to use CHANNEL FIX to fix your TV's input to the AV receiver (VIDEO 1). (see "CHANNEL FIX" on page 42)

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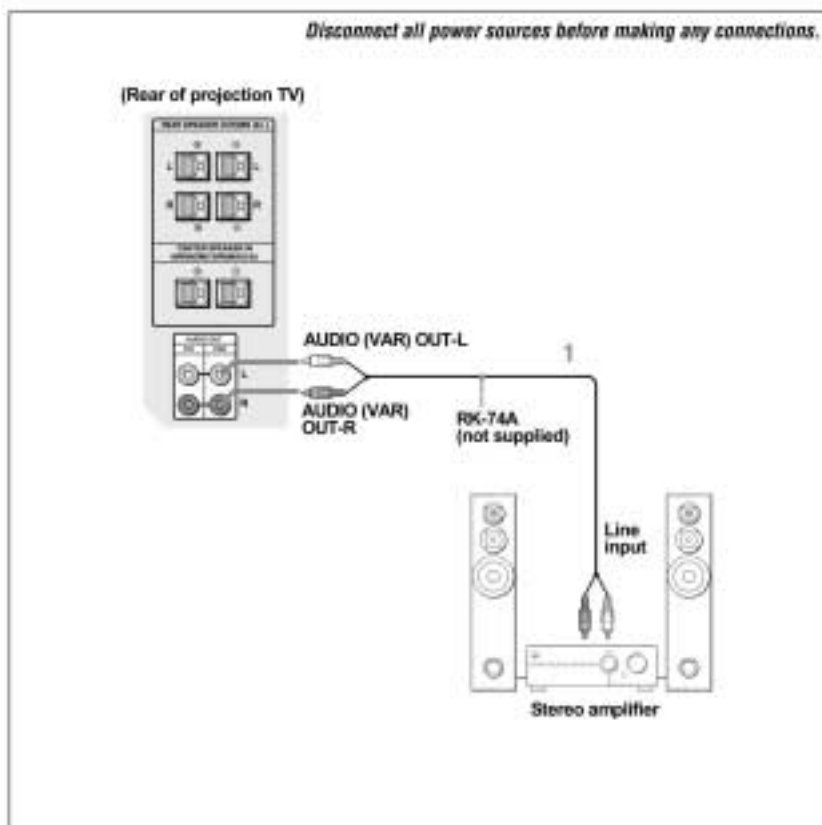
Connecting an Audio System

For more dynamic sound, connect an audio system to the projection TV.

- 1 Using an AUDIO cable, connect AUDIO (VAR) OUT on the projection TV to one of the unused Line inputs (e.g. Tape-2, AUX1, etc.) on the stereo (White-AUDIO Left, Red-AUDIO Right).
- 2 Set the stereo to the chosen Line input and use the AUDIO menu to switch the TV's speakers off. (see "SPEAKER" on page 38)

Note:

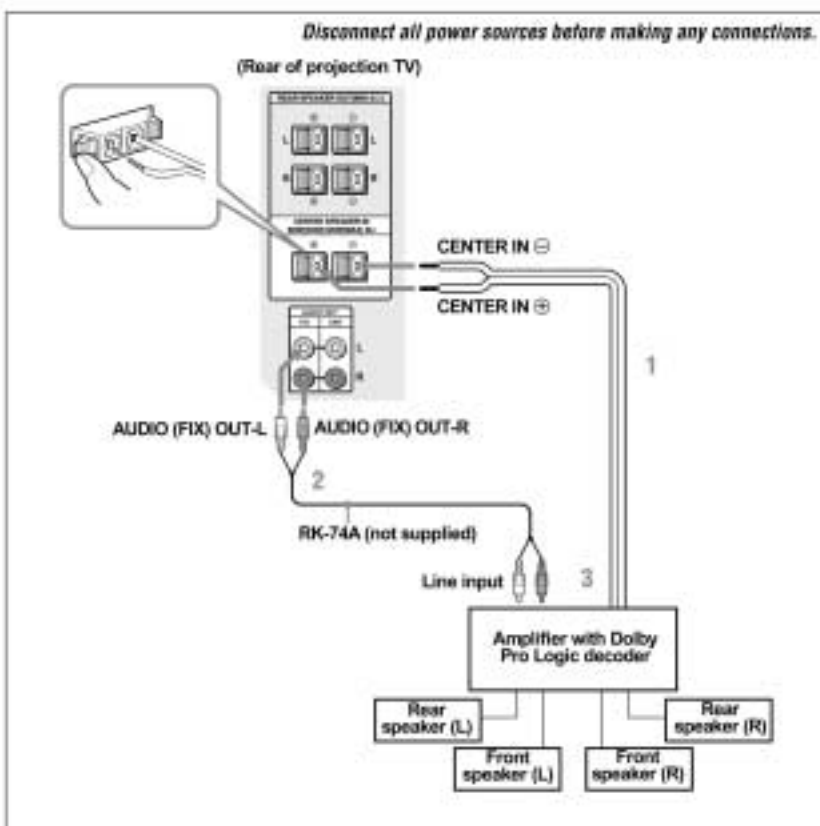
- You can adjust VOLUME, BASS, TREBLE and BALANCE through the projection TV on AUDIO (VAR) OUT only.



Connecting an Amplifier That Supports Dolby Pro Logic Decoder

If you use an amplifier with a Dolby Pro Logic decoder instead of the projection TV's audio system, you can still use the projection TV's speaker as a center speaker.

- 1 Using the speaker cords (supplied with the amplifier), connect the speaker terminals on the amplifier to CENTER SPEAKER IN +/- on the projection TV.
- 2 Using an AUDIO cable, connect AUDIO (FIX) OUT on the projection TV to one of the unused Line inputs (e.g. Tape-2, AUX1, etc.) on the amplifier (White-AUDIO Left, red-AUDIO Right).
- 3 Set the amplifier to the chosen Line input and use the AUDIO menu to set "SPEAKER" to "CENTER IN" on the projection TV. (see "SPEAKER" on page 38)



22

Basic Set Up

Using the Remote Control

Inserting the batteries

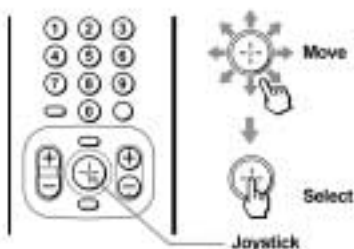
Insert two size AA (R6) batteries (supplied) by matching the + and - on the batteries to the diagram inside the remote control's battery compartment.



Notes:

- Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
- Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater or where the humidity is high.
- Your remote control can be programmed to operate most video equipment. (see "Operating Video Equipment" on page 54)

Using the remote control joystick



The supplied remote control has a joystick which moves the on-screen selector in eight directions. In most cases, moving the joystick up, down, left or right will cause the selector to move in the selected direction.

In some cases, the selector may move in eight directions according to the function. Pressing down on the center of the joystick $\oplus$ will activate the selected item.

You may also move the joystick right to activate a selected item. (There are some exceptions to this option.)

Adjusting sliders

When menu items present a slider (— or —), move the joystick up, down, left or right to adjust the setting.

On-line help/instructions

Several menu windows will provide prompts and instructions to assist you in navigating through the different functions.

Basic Set Up

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Setting Up the Projection TV Automatically

The AUTO SET UP feature will allow you to set the on-screen language and set all receivable channels.

The AUTO SET UP feature does not apply for installations that use a cable box for all channel selection.

You can also set up the projection TV manually. (see "Using the CHANNEL SET UP Menu" on page 41)

Notes:

- Perform this function during the day, with the antenna and/or cable properly connected, to ensure that all available channels will be broadcasting and receivable.
- Before you perform AUTO SET UP again, make sure that the input from ANT (not AUX) is selected by pressing ANT until "AUX" does not appear next to the channel number.
- When you perform AUTO PROGRAM, your CHANNEL FIX and ON/OFF TIMER settings will be erased.
- When you perform AUTO SET UP, all the settings in the VIDEO and AUDIO menus are reset to the factory settings.

Using the buttons on the front panel and inside the drop-down panel on the projection TV:



- 1 Press POWER to turn on the projection TV.



- 2 Press SET UP inside the drop-down panel. The AUTO SET UP screen appears.



- 3 Press CHANNEL + to select English, CHANNEL - to select Spanish.

The screen will change to reflect your choice.



- 4 Press VOLUME - to continue.



- 5 Press CHANNEL + to preset channels automatically.



"AUTO PROGRAM" appears and the projection TV starts scanning and presetting channels automatically. While scanning, the received channel will be displayed on the sub screen. When all the receivable channels are stored, the lowest numbered channel will be displayed.

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If your projection TV is not connected to a cable system

If you perform AUTO SET UP, CABLE is set to ON automatically. After finishing AUTO SET UP, set CABLE to OFF in the CHANNEL SET UP menu, then set AUTO PROGRAM to YES to perform automatic channel presetting. (see "CABLE" and "AUTO PROGRAM" on page 42)

To perform AUTO SET UP again

- Press SET UP inside the drop-down panel on the projection TV, and perform steps 3-5 on page 24.
- Press CHANNEL + or CHANNEL - to select a language.
- Press VOLUME - to restore factory settings ("CONTINUE TO AUTO PROGRAM?" will appear on the screen. Press CHANNEL + to execute or CHANNEL - to exit).
- Press SET UP to exit.

Adjusting the Convergence Automatically (FLASH FOCUS)

The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. Before you use your projection TV, be sure to adjust the convergence.

The FLASH FOCUS feature allows you to adjust the convergence automatically.

Tip

It is recommended to perform FLASH FOCUS about 30 minutes after the projection TV is first turned on.

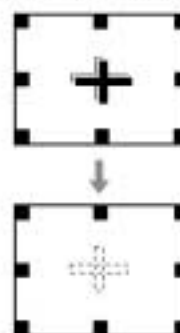


- 1 Receive a TV or cable TV program.
- 2 Press FLASH FOCUS for every wide screen mode; NORMAL, WIDE ZOOM, ZOOM and FULL.



To select the wide screen mode, press WIDE MODE on the remote control.

The cross pattern appears and FLASH FOCUS begins to work. The adjustment is completed when the cross pattern becomes white.



To obtain an optimum convergence for Digital TV programs

The optimum convergence alignment varies with digital TV formats. Whenever you find that the picture blurs, press FLASH FOCUS.

Notes:

- You cannot perform any other functions until FLASH FOCUS has completed its cycle.
- If you perform any other operation while FLASH FOCUS is in progress, FLASH FOCUS operation is canceled.

Basic Set Up

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Using Your New Projection TV

Watching the TV

Many TV features can be accessed directly through the remote control. The following will explain the function of some buttons found on your remote control.

Using the white labeled buttons for projection TV operations



REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THE FOLLOWING DESCRIPTIONS

TV (FUNCTION)

Activates the remote control for use with the projection TV.

ANT

— (AUX input)

Press to change between the VHF/UHF input and the AUX input. (for detailed connection information, see "Cable and antenna" on page 8 or "Cable box and cable" on page 9).

TV POWER

Turns the projection TV on and off. If a video input indication (e.g., VIDEO 1, VIDEO 2) appears on the screen, press TV/VIDEO until a channel number appears.

0 - 9 and ENTER

Use for direct channel selection. Press 0-9 to select a channel (for example, to select channel 10, press 1 and 0). The channel will change after 2 seconds, or you can press ENTER for immediate selection.

CH +/-

Press to scan through the channels (+ up or - down).

VOL +/-

Press to adjust the volume (+ up or - down).

JUMP

Press to alternate or jump back and forth between two channels. The projection TV will jump between the current channel and the last channel selected using the 0-9 buttons.

MUTING

Press to mute the sound. "MUTING" will appear on the screen and will dim three seconds later. To restore sound, press again or press VOL +.

FREEZE

— (picture hold button)

This is useful when you need to copy down information that appears on the TV's screen. Press to freeze the picture.

Press again or press OFF to cancel.

If you select TWIN as a FREEZE MODE in the SET UP menu, you can freeze the desired scene and display it on the left while viewing the normal picture on the right. (see "FREEZE MODE" on page 46)

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Notes:

- The FREEZE button does not function with the picture from VIDEO 5 (DTV IN).
- If the frozen picture mode is not canceled for more than an hour, the normal picture is resumed automatically.

SLEEP

Press repeatedly until the projection TV displays the approximate time in minutes (30, 60, or 90) that you want the projection TV to remain on before shutting off automatically.

Cancel by pressing until "SLEEP OFF" appears.

DISPLAY

Press to display the channel number, current time, channel caption (if set), and MTS mode (if SAP is selected). The SAP indication disappears and the other indications dim three seconds later.

To turn the display off, press DISPLAY again.

CC

Press repeatedly to scroll through available displays:

Caption Vision

Displayed on the screen if the broadcaster offers this service. (see "CAPTION VISION" on page 45)

XDS (Extended Data Service)

Displays a network name, program name, program type, program length, program description, call letters and time of the show if the broadcaster offers this service.

No display

"OFF" appears and the display is canceled.

TV/VIDEO

Press repeatedly to scroll through available video inputs:

TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4 and VIDEO 5

If you select SKIP as a VIDEO LABEL in the SET UP menu, your projection TV will skip the video input you selected. (see "VIDEO LABEL" on page 46)

MTS

Press to scroll through the Multi-channel TV Sound (MTS) options. (see "MTS" on page 37)

PICTURE MODE

Press PICTURE MODE repeatedly to directly choose one of five different video modes that best suits the program you are watching.

VIVID:

Select for enhanced picture contrast and sharpness.

STANDARD:

Select to display a standard picture for normal viewing environments.

MOVIE:

Select to display a finely detailed picture for low light environments.

GAME:

Select to display graphics such as a video game.

PRO (Professional):

Select to display a picture with minimum enhancements.

When you select each mode, you can also adjust the picture quality (such as BRIGHTNESS, COLOR, etc.) to suit your taste.

For details, see "MODE" on page 36.

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Watching Digital TV

When you have connected the DTV receiver, you can enjoy digital TV programs. This projection TV is capable of receiving the 1080i, 720p, 480p and 480i digital TV formats.

Note:

This projection TV is not capable of displaying a 720p format signal as it is. When the 720p format signal is received, it is converted into a 480p format signal.

To view a digital TV program

- 1 Connect the DTV receiver to VIDEO 5 (DTV) IN on the projection TV. (for details, see pages 13 and 12)
- 2 Press TV/VIDEO to select VIDEO 5. The digital TV format being received is displayed on the screen for three seconds.

Note:

- You cannot select VIDEO 5 unless a DTV receiver is connected.



- 3 Select a digital channel on the DTV receiver. For details, see the Operating Instructions of the DTV receiver.
- 4 Adjust the volume on this projection TV.

Tip

The optimum convergence alignment varies with digital TV formats. Whenever you find that the picture blurs, press FLASH FOCUS. (for details, see page 25)

Watching the Picture in Wide Screen Mode Automatically - AUTO WIDE

When a 480i format signal with an ID-1 (16:9 aspect ratio recorded) signal is received, the projection TV automatically selects wide screen mode.

Notes:

- When the AUTO WIDE function does not work correctly due to the quality of signal, select wide screen mode manually. (see page 29)
- The AUTO WIDE function does not work when the following signals are received:
 - 480i format signal without an ID-1 (aspect ratio recorded) signal
 - 480p format signal
 - 720p/1080i format signals (The picture is always displayed in FULL mode)

Activating the AUTO WIDE function

Set AUTO WIDE in the WIDE SCREEN MODE menu to ON. (see page 40)

To deactivate the AUTO WIDE function

Set AUTO WIDE in the WIDE SCREEN MODE menu to OFF. (see page 40)

When receiving a normal 4:3 broadcast - NORMAL

When a normal 4:3 aspect ratio picture with an ID-1 signal is received, NORMAL mode is automatically selected. The picture is not enlarged and is displayed as it is.



Tip

When enlarging the picture to fill the 16:9 screen, select WIDE ZOOM in WIDE SCREEN MODE menu manually. (see "Using WIDE ZOOM mode" on this page)

When receiving a 4:3 squeezed picture - FULL

When a squeezed video camera or DVD picture with an ID-1 signal is received, FULL mode is automatically selected. The picture is enlarged horizontally only, to fill the 16:9 screen.



Note:

- The 720p/1080i format signal is displayed in FULL mode always.

Watching the Picture in Wide Screen Mode Manually - WIDE MODE

You can select the wide screen mode manually.

Note:

The 720p/1080i format signal is displayed in FULL mode always.

Press WIDE MODE repeatedly on the remote control.

WIDE MODE



Each press scrolls through the following modes:

NORMAL → WIDE ZOOM → ZOOM → FULL

For details on each mode, see "To select the wide screen mode automatically - WIDE MODE."

When selecting the wide screen mode manually - Temporarily Auto Wide Off

When the wide screen mode is selected by pressing the WIDE MODE button on the remote control, the AUTO WIDE function does not work temporarily. However, the settings of AUTO WIDE in WIDE SCREEN MODE menu remains.

AUTO WIDE function works again when:

- video input signals are changed (see "TV/VIDEO" on page 27)
- the projection TV is turned off
- DIRECT PLAY is selected (see page 46)
- ON/OFF TIMER works (see page 40)
- AUTO WIDE in WIDE SCREEN MODE menu is set to ON again (see page 40).

Using WIDE ZOOM mode

You can enlarge a normal 4:3 picture of 480i format signal by selecting WIDE ZOOM. The picture is enlarged, while the upper and lower parts of the picture are condensed to fit the 16:9 screen.



Using ZOOM mode

You can enlarge a letter box movie (16:9 aspect ratio) of a video tape or a DVD disc by selecting ZOOM.

The picture is enlarged horizontally and vertically to an equal aspect ratio that fills the 16:9 screen.



Caution about continued wide screen mode usage for 4:3 aspect ratio pictures

This projection TV was designed primarily for viewing TV broadcasts in wide screen mode (16:9 aspect ratio pictures). Consistent and exclusive viewing of 4:3 aspect ratio programs in NORMAL mode will lead to permanent imprinting of the gray band on both sides of the picture.

Therefore, when you watch conventional 4:3 ratio TV programs, we recommend you select WIDE ZOOM mode by using WIDE MODE button.

Notes:

- Depending on the picture format, black bands may be present on the top and bottom of the screen.
- For ZOOM and WIDE ZOOM modes you can adjust the vertical position of the picture. (see "V CENTER" on page 41)

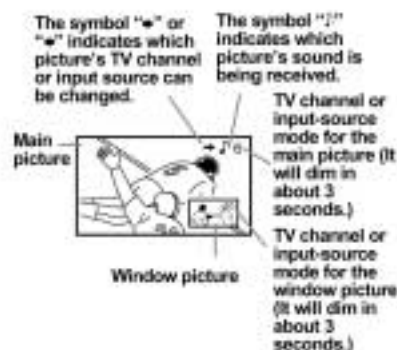
Watching Two Programs at One Time — PIP

The Picture-in-Picture (PIP) feature allows you to view two channels simultaneously, one in the full size "main" picture and one in a smaller "window" picture.

You can move the window picture to any location on the screen.

Note:

- The PIP feature is not available for the inputs from VIDEO 5 (DTV) IN.



Using the yellow labeled buttons for PIP operations

REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL, AS YOU REVIEW THE FOLLOWING DESCRIPTION.

Tip

If you press RESET in PIP mode, the window picture will move to the bottom right (factory-preset location).



Press to display a window picture.

Each time you press this button, the picture size will change (1/4 → 1/9 → 1/16).

Press OFF to close the window picture.

POSITION

Press to change the location of the window picture (counterclockwise) around the main picture.

ACTIVE

Press to select either the main or window picture in order to change the TV channel or video source using the white labeled buttons below. The symbol "★" (or "TV") will appear to indicate which picture's channel or input mode can be changed.



— (white labeled button)

To change the location of the window picture, move the joystick in any direction and release it when the picture is in the desired location.

TV/VIDEO

— (white labeled button)

Press repeatedly to scroll through the available video inputs for the picture on which the symbol "★" (or "TV") is displayed. (see "TV/VIDEO" on page 27)



— (white labeled button)

Press to select the TV channel on which the symbol "★" (or "TV") is displayed. (for details, see "Watching the TV" on page 26)



— (white labeled button)

Press to change between the VHF/UHF input and the AUX input for the picture on which the symbol "★" (or "TV") is displayed.

AUDIO

Press to alternate sound between the main picture and the window picture. The symbol "TV" will appear for a few seconds to indicate which picture's sound is being received.

FREEZE

This is useful when you need to copy down information that appears on the TV's screen.

Press to freeze the main and window pictures.

Press again to resume PIP viewing. Press OFF to cancel and resume normal TV viewing.

SWAP

Press to switch the audio and video of the main picture and the window picture.

Each time you press SWAP, the picture and sound of the two will be exchanged.



Press to access CHANNEL INDEX for direct channel selection. (see "Using CHANNEL INDEX" on page 33)



Press to cancel the PIP function and return to normal viewing.

Notes:

- If one of the pictures received through PIP is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see "CHANNEL SKIP" on page 41)
- If you select VIDEO 5 when the main picture is active, the window picture disappears and you can view the picture from VIDEO 5 (DTV) IN. When the window picture is active, you cannot view the picture from VIDEO 5 (DTV) IN.

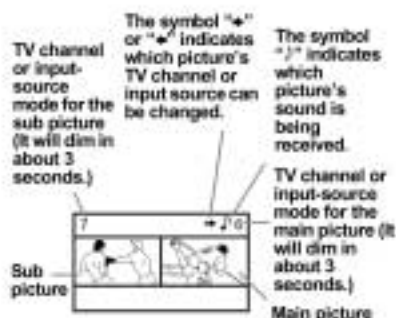
Watching Two Programs at One Time – P&P (Twin View™)

The Picture-and-Picture (P&P) feature allows you to view two channels simultaneously, both in a reduced size screen. The main picture will appear on the right.

You can change the size of both pictures to suit your personal preference.

Note:

- The P&P feature is not available for the inputs from VIDEO 5 (DTV) IN.



Using the yellow labeled buttons for P&P operations

REFER TO THE ILLUSTRATION OF THE REAR/TELE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THE FOLLOWING DESCRIPTIONS.

Tip

If you press RESET in P&P mode, the right and left pictures will be reset to the same size (factory-preset size.)

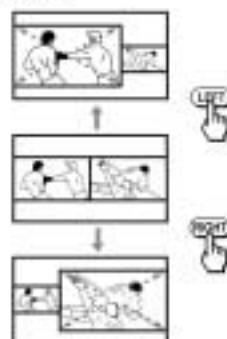


Press to display right (main) and left pictures. Press **OFF** to close the sub picture.



Press and hold either RIGHT or LEFT to zoom in on the selected picture. Release at the desired size. The other picture will be zoomed out simultaneously.

Moving the joystick right or left will activate the same function.



ACTIVE



Press to select either the right or left picture in order to change the TV channel or video source using the white labeled buttons below. The symbol "★" (or "★★") will appear to indicate which picture's channel or input mode can be changed.

TV/VIDEO



Press repeatedly to scroll through the available video inputs for the picture on which the symbol "★" (or "★★") is displayed. (see "TV/VIDEO" on page 27)

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Press to select the TV channel on which the symbol "★" (or "★★") is displayed. (for details, see "Watching the TV" on page 26)



Press to change between the VHF/UHF input and the AUX input for the picture on which the symbol "★" (or "★★") is displayed.



Press to alternate sound between the right and left pictures. The symbol "J" will appear for a few seconds to indicate which picture's sound is being received.



This is useful when you need to copy down information that appears on the TV's screen. Press to freeze both the right and left pictures. Press again to resume P&P viewing or press **OFF** to cancel and resume normal TV viewing.

SWAP



Press to switch the audio and video of the right and left pictures.

Each time you press SWAP, the picture and sound of the two will be exchanged.



Press to cancel the P&P function and return to normal viewing.

Notes:

- If one of the pictures received through P&P is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see "CHANNEL SKIP" on page 41)
- If you select VIDEO 5 when the right picture is active, the left picture disappears and you can view the picture from VIDEO 5 (DTV) IN. When the left picture is active, you cannot view the picture from VIDEO 5 (DTV) IN.

Using CHANNEL INDEX

You can use the CHANNEL INDEX feature to display multiple channels and select one directly. Channels used for CHANNEL INDEX will come directly from the TV's list of receivable channels (those set during AUTO PROGRAM or through the CHANNEL SET UP menu).

Note:

- The CHANNEL INDEX feature is not available for the inputs from VIDEO 5 (DTV) IN.

1 Press **CH**.

The current channel will be reduced in size and displayed in the center of the screen in normal motion picture format. The first twelve receivable channels will appear one after another, clockwise, around the center picture. These small pictures are updated in intervals of one second. The channel number and channel caption (if set) on the second and later appearances will dim.



A cyan-colored frame will appear to indicate current channel selection.

2 Move the joystick in any direction to move the cyan frame to the picture that you wish to view; and press **+**.



(continued)

The selected channel will zoom in and move to the center, and the sound of that channel will be heard.



- 3 If you wish to view another channel, repeat step 2.

To view the normal picture of the selected channel, proceed to step 4.

- 4 Press .

The center picture will be enlarged for normal viewing.



Notes:

- You cannot move the cyan frame until all of the surrounding pictures appear.
- The projection TV will continually update each of the surrounding pictures while the CHANNEL INDEX screen is displayed.
- Sound will only be heard from the center picture.
- If one of the pictures received through CHANNEL INDEX is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see "CHANNEL SKIP" on page 41)

- If you leave the CHANNEL INDEX screen displayed for an hour without any additional operation, CHANNEL INDEX is canceled and the normal picture reappears.

Using the yellow labeled buttons for CHANNEL INDEX operations

REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THE FOLLOWING DESCRIPTIONS.



Press to display the next twelve receivable channels.



Press to cancel the current operation and return to normal TV viewing.



Press to freeze the center picture.

Press again to cancel the frozen picture and resume normal center picture viewing.

Using the white labeled buttons for center picture operations

REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THE FOLLOWING DESCRIPTIONS.



Press to scroll the center picture through the video inputs.

The surrounding channels will not change.



Press to switch the center picture between the VHF/UHF input and the AUX input.



Press to select a channel for the center picture. (for details, see "Watching the TV" on page 26)

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Adjusting Your SET UP (menus)

Learning Menu Selection

Use the MENU button to access a menu and use the joystick to alter the settings. Use the following example to learn how to modify settings.

- 1 Press the MENU button.

The main menu appears.



- 2 Move the joystick up or down to highlight the desired menu and press  (press down on the center of the joystick) to activate it.



You may also move the joystick right to activate your selection.

- 3 Move the joystick up or down to highlight the desired option.



- 4 Press  (press down on the center of the joystick).

Options for your selection (Pop-up menu or Adjusting menu) will be displayed.

Pop-up menu



Adjusting menu



- 5 Move the joystick up or down to make your selection and press  to activate it.

The previous screen will reappear.



Some adjustment menus may require further operations. For details, see each menu option.

To return to the previous screen (except for the slider adjustment menus), choose  at the bottom of the menu and press  or move the joystick left.

- 6 Once you have completed all menu corrections, press MENU to exit the menu screens.



To exit from the menus at any time

Press MENU.

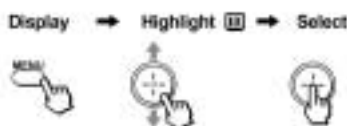
35

Using the VIDEO Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 35.

To select the VIDEO menu:



MODE

— Customized picture viewing

You can choose one of five different video modes that best suits the program you are watching. You can also adjust the picture quality (such as BRIGHTNESS, COLOR, etc.) for each MODE to suit your taste.

First select each MODE individually before adjusting the picture quality.

VIVID:

Select for enhanced picture contrast and sharpness.

STANDARD:

Select to display a standard picture for normal viewing environments.

MOVIE:

Select to display a finely detailed picture for low light environments.

GAME:

Select to display graphics such as a video game.

PRO (Professional):

Select to display a picture with minimum enhancements.

Press PICTURE MODE on the remote control for direct selection of a MODE setting.

PICTURE

— Picture Adjustment

Adjust slider right (up) to increase picture contrast.

Adjust slider left (down) to decrease picture contrast.

BRIGHTNESS

— Picture Adjustment

Adjust slider right (up) to brighten the picture.

Adjust slider left (down) to darken the picture.

COLOR

— Picture Adjustment

Adjust slider right (up) to increase color intensity.

Adjust slider left (down) to decrease color intensity.

HUE

— Picture Adjustment

Adjust slider right (up) to increase the green tones.

Adjust slider left (down) to increase the red tones.

SHARPNESS

— Picture Adjustment

Adjust slider right (up) to sharpen the picture.

Adjust slider left (down) to soften the picture.

COLOR TEMP

— White Intensity (Color Temperature) Adjustment

COOL:

Select to give the white colors a bluish tint.

NEUTRAL:

Select to give the white colors a neutral tint.

WARM:

Select to give the white colors a reddish tint.

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NR

— Picture Noise Reduction

Select ON to reduce picture noise.

Select OFF to cancel the feature.

NR can be set separately from the MODE settings of the VIDEO menu.

DYNAMIC PICTURE

— Black Intensity Adjustment

Select ON to emphasize the black level and to produce a bolder dynamic picture.

Select OFF to cancel the feature.

To restore the factory settings

Press RESET on the remote control while the VIDEO menu is selected. To restore each MODE to the factory setting, press RESET after selecting the mode to be reset.

Using the AUDIO Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 35.

To select the AUDIO menu:



TREBLE

— Sound Adjustment

Adjust slider right (up) to increase high pitched sounds.

Adjust slider left (down) to decrease high pitched sounds.

BASS

— Sound Adjustment

Adjust slider right (up) to increase low pitched sounds.

Adjust slider left (down) to decrease low pitched sounds.

BALANCE

— Sound Adjustment

Adjust slider right (up) to emphasize right speaker volume.

Adjust slider left (down) to emphasize left speaker volume.

MTS

— Enjoy stereo, bilingual and more programs

STEREO:

Select for stereo reception when viewing a program broadcast in stereo.

SAP:

Select to listen to a bilingual broadcast. (non-SAP programs will be muted when this feature is selected)

MONO:

Select for mono reception. (use to reduce noise during stereo broadcasts)

Quick MTS access:

Press MTS on your remote control to cycle through the MTS options as follows: (STEREO → SAP → MONO → STEREO).

Note:

- The MTS function is not available for input from an external equipment connected VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4 or VIDEO 5 (DTV) IN.

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SPEAKER

— Custom selection of audio output source

ALL ON:

Select to listen to the sound from the projection TV speakers alone.

L/R OFF:

Select to turn off the projection TV left and right speakers and listen to the left and right channel sounds through a separate audio system's speakers.

ALL OFF:

Select to turn off the projection TV speakers and listen to the projection TV's sound only through an external audio system's speakers.

CENTER IN:

Select to use the projection TV center speaker as center speaker when you connect an amplifier with a Dolby Pro Logic decoder. (see "Connecting an Amplifier That Supports Dolby Pro Logic Decoder" on page 22)

EFFECT

— Customizes surround sound effects based on the program's audio type

EFFECT can only be set when SPEAKER is set to ALL ON or L/R OFF.

DOLBY PRO LOGIC:

Produces superb theater-like surround effects. Most effective for programs encoded in Dolby surround.

DOLBY 3 STEREO:

Produces a dynamic three dimensional sound without using the rear speakers. The sound of the rear channel is output from the front speakers.

SRS 3D MONO:

Adds a surround-like effect to mono programs.

LIVE:

Produces surround effects with the atmosphere of a concert hall.

GAME:

Produces maximum audio impact. Most effective for video games.

OFF:

Normal stereo or mono reception.

SURROUND LEVEL

— Speaker volume adjustment for surround modes

After selecting one of the surround modes, adjust the volume of each speaker so that the sound will be even and natural. (see "Adjusting the Speaker Volume for Customized Surround Mode" on the right column)

To restore the factory settings

Press RESET on the remote control while the AUDIO menu is selected.

However, EFFECT is not reset to the factory setting even if you press RESET.

Adjusting the Speaker Volume for Customized Surround Mode

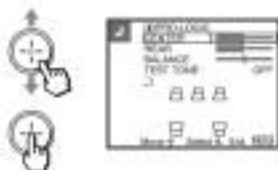
After you set EFFECT to one of the modes, adjust the volume of the front, center and rear speakers to the same level so that the projection TV's sound will be even and natural. For DOLBY PRO LOGIC and DOLBY 3 STEREO, adjust the speaker volume using the test tone feature.

Adjusting the speaker volume

- 1 Connect the rear speakers (not supplied). For details, see "Mounting the Rear Speakers (not supplied)" on pages 6 and 7.
- 2 Select SURROUND LEVEL from the AUDIO menu. (see "SURROUND LEVEL" on the left column)



- 3 Move the joystick up or down to select the speaker for volume adjustment and press $\odot$.



CENTER: Select to adjust the level of the center speaker. (not available for SRS 3D MONO)

REAR: Select to adjust the level of the rear speakers. (not available for DOLBY 3 STEREO)

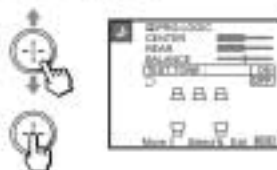
BALANCE: Select to adjust the balance between the right and left speakers.

- 4 Move the joystick up, down, left or right to adjust the volume level and press $\odot$.
- 5 Use the joystick to select other speakers and to adjust the volume levels.

Adjusting the speaker volume using the test tone

The TEST TONE feature makes it easier to adjust the volume level. You can use this feature for DOLBY PRO LOGIC and DOLBY 3 STEREO modes only.

- 1 With the SURROUND LEVEL window open, move the joystick up or down to select TEST TONE and press $\odot$.



- 2 Move the joystick up or down to select ON. A test tone will be output from each speaker in sequence:
Front left → Center → Front right → Rear
To turn off the test tone, select OFF.
- 3 Follow steps 2 through 4 in "Adjusting the speaker volume."

Note:

You can adjust the volume using the test tone independent of the projection TV's operation.

Using the TIMER Menu



After setting the clock you can use the timer to turn the projection TV on and off.

For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 35.

To select the TIMER menu:

Display → Highlight $\odot$ → Select



Tip

Set daylight saving time before setting the clock. Any loss of power will cause these settings to be erased.

(continued)

DAYLIGHT SAVING

— Automatically adjusts the time.

Select **YES** to compensate for Daylight Saving Time in spring. The current time automatically moves ahead one hour.

Select **NO** at the end of Daylight Saving Time in fall. The current time moves back one hour.

CURRENT TIME

— Necessary for the TIMER.

- 1 Press $\odot$, then move the joystick up or down until the current day (MON-SUN) is displayed, and press $\odot$.
 - 2 Move the joystick up or down until the current hour (1-12) and AM/PM is displayed, and press $\odot$.
 - 3 Move the joystick up or down until the current minute (00-59) is displayed, and press $\odot$.
- The Clock has now started. Press MENU to exit.



ON/OFF TIMER

— Wake up or scheduled viewing.

- 1 Select the desired timer (1 or 2).
- 2 Move the joystick up or down until the desired day (MON-SUN) or range of days (EVERY SUN-SAT or EVERY MON-FRI) is displayed, and press $\odot$.
- 3 Move the joystick up or down until the time (hours and minutes) that you want the projection TV to remain on is displayed, and then press $\odot$.
- 4 Move the joystick up or down to set the time duration (maximum of 6 hours) and press $\odot$.
- 5 Move the joystick up or down to select the desired channel and press $\odot$.

The timer is now set. The TIMER/STAND BY indicator on your projection TV will be lit.

Press MENU to exit. To cancel your timer setting, select timer 1 or 2 and press RESET while in the ON/OFF TIMER window. Performing AUTO PROGRAM will erase all TIMER settings.



Using the WIDE SCREEN MODE Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 35.

To select the WIDE SCREEN MODE menu:

Display → Highlight → Select



AUTO WIDE

— Automatically selects the wide screen mode.

Select **ON** to automatically display the picture with an ID-1 (aspect ratio recorded) signal of 480i format in an optimum wide screen mode; normal 4:3 picture in NORMAL, letterbox picture in ZOOM, and 4:3 squeezed picture in FULL. (for details, see pages 28 and 29)

Select **OFF** if you want to choose the wide screen

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mode manually by pressing the WIDE MODE button repeatedly.

WIDE MODE

— Manually selects the wide screen mode.

You can select **NORMAL**, **WIDE ZOOM**, **ZOOM** or **FULL** for the 4:3 or letterbox picture to fill the 16:9 screen manually by pressing the WIDE MODE button repeatedly. (for details on each mode, see "Watching the Picture in Wide Screen Mode Automatically — AUTO WIDE" on page 28)

V CENTER

— Adjusts the position of the picture

Allows you to move the picture vertically within the screen (available only in ZOOM and WIDE ZOOM modes).

Move the joystick up or down to move the picture, and press $\odot$.

Using the CHANNEL SET UP Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 35.

To select the CHANNEL SET UP menu:

Display → Highlight → Select



CHANNEL SKIP

— Skips unnecessary channels

After AUTO SET UP, you can erase unnecessary TV channels from the channel preset memory.

With the CHANNEL SKIP window open:



- 1 Move the joystick up or down to select the desired channel. You can view the channel that is selected with the CHANNEL SKIP menu in the center sub screen. You can also use CH +/- or 0-9 and ENTER buttons.

- 2 Press $\odot$.

- 3 Move the joystick up or down to select **YES**, and press $\odot$.

The selected channel will be erased.

If you want to re-enter the skipped channel, follow the steps above and select **NO**.

CHANNEL CAPTION

— Easy recognition of the channel you are watching

You can add a caption for up to 32 channels of both VHF/UHF and AUX inputs.

With the CHANNEL CAPTION window open:



- 1 Press $\odot$ and then move the joystick up or down to select the desired channel. You can view the channel that is selected with the CHANNEL CAPTION menu in the center sub screen.
- 2 Press $\odot$.
- 3 Move the joystick up or down to display the first letter or number of the caption and press $\odot$ to select it.
- 4 Repeat until up to four digits are selected.
- 5 Press $\odot$.

To erase a caption, press RESET.

Adjusting Your SET UP (menus)

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CABLE

— Cable system setting

Select **ON** if your projection TV is connected to a cable system.

Select **OFF** if your projection TV is connected to an antenna.

AUTO SET UP will set CABLE to ON automatically.

AUTO PROGRAM

— Automatic channel presetting

Select **YES** to signal the projection TV to automatically program all receivable TV channels. When all the receivable channels are stored, the lowest numbered channel is displayed.

Select **NO** to cancel AUTO PROGRAM.

FAVORITE CHANNEL

— User's favorite channels

The FAVORITE CHANNEL feature enables easy access to the eight channels that you preset (or the last channel that you were watching). (for details on how to set up this feature, see "Setting and Selecting FAVORITE CHANNEL" on this page.)

CHANNEL FIX

— Locks selection of your projection TV's input when used in conjunction with external equipment such as a cable box, AV receiver, etc.

2-6:

When the cable box is connected to the VHF/UHF input, you can fix the TV's input to one of the channels between 2 and 6. Press SAT/CABLE (FUNCTION) and then CH +/- to change the cable box channels.

AUX 2-6:

Use this when a cable box is connected to AUX, and a cable or antenna is connected to VHF/UHF.

VIDEO 1:

Use this when you have connected external video equipment (e.g. AV receiver) and you want the projection TV's input fixed to it.

OFF:

When you want to switch CHANNEL FIX off.

If the projection TV is in the AUX mode when you turn CHANNEL FIX off, press ANT to return to UHF input mode.

TIMER settings are erased when CHANNEL FIX is set.

Note:

- You cannot change channels with the TV's tuner when you set CHANNEL FIX. If you want to use the TV's tuner while fixing the TV's input to VIDEO 1, use the SET UP menu to set SELECT OUT to TV OUT. (see "SELECT OUT" on page 45)

Setting and Selecting FAVORITE CHANNEL

The FAVORITE CHANNEL feature of your projection TV enables easy access to the eight channels that you preset (or the last channel that you were watching).

Your FAVORITE CHANNEL options can be set automatically or manually.

The factory setting for FAVORITE CHANNEL is AUTO.

When FAVORITE CHANNEL is set to AUTO, the last eight channels selected with the 0-9 buttons will be set as FAVORITE CHANNEL options. If you want to input your own selections as FAVORITE CHANNEL settings, set to MANUAL.

Note:

- You can not use the FAVORITE CHANNEL when watching the signal input from VIDEO 5 (DTV) IN.

Setting FAVORITE CHANNEL manually

- 1 Select FAVORITE CHANNEL from the CHANNEL SET UP menu. (see page 41)



- 2 Move the joystick up or down to select MANUAL and press $\odot$.

The FAVORITE CHANNEL menu will appear. If you set CHANNEL CAPTION names (e.g. CNN, HBO), they will also be displayed. (see "CHANNEL CAPTION" on page 41)

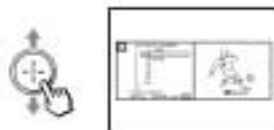


- 3 Move the joystick up or down to select a position (1-8), and press $\odot$.



- 4 Move the joystick up or down to select a channel.

You have now selected a favorite channel.



- 5 Press $\odot$ and use the joystick to program other favorite channels. (Follow steps 3 and 4.)

- 6 Press MENU when you have finished.

Your favorite channels are now ready for use.

Resetting FAVORITE CHANNEL choices

You have the option of returning to the FAVORITE CHANNEL screen to adjust any of your favorite channel choices.

Simply proceed as described in "Setting FAVORITE CHANNEL manually" (skip step 2 if MANUAL is already selected).

When you reach step 3, select the position you want to change and press $\odot$. Press RESET to clear the channel for that position.



Move the joystick up or down to select a new channel.

Press MENU when you are done.

Note:

- The FAVORITE CHANNEL feature is not available for the picture input from AUX or VIDEO 5 (DTV) IN.

(continued)

Using FAVORITE CHANNEL

You can use the FAVORITE CHANNEL feature to directly select the channel you want to watch.

- 1 Press **+** once.

The favorite channel menu and a window picture will be superimposed over the current channel. The window picture displays the channel selected from the menu.



- 2 Move the joystick up or down to select the channel that you wish to view from the menu. The picture of the selected channel will be displayed in the window picture.



- 3 Press **+** to select the channel.

The selected channel will be displayed for normal viewing.



To cancel the favorite channel menu before selecting a channel, move the joystick up or down to select EXIT at the bottom of the menu and press **+**.

Using the SET UP Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 35.

To select the SET UP menu:

Display → Highlight → Select



PARENTAL CONTROL

— Blocks programs unsuitable for children

Allows you to block TV programs that you feel are unsuitable for your children. (see "Using the PARENTAL CONTROL Feature" on page 47 for details)

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CAPTION VISION

— Television closed caption display

Some programs are broadcast with Caption Vision.

To display Caption Vision, select **CC 1**, **CC 2**, **CC 3**, **CC 4**, **TEXT1**, **TEXT2**, **TEXT3** or **TEXT4** from the menu. Then press the **CC** button until Caption Vision is displayed.

CC 1, **CC 2**, **CC 3** or **CC 4** displays a printed version of the dialogue or sound effects of a program. (The mode should be set to **CC 1** for most programs.) **TEXT1**, **TEXT2**, **TEXT3** or **TEXT4** displays network/station information presented using either half or the whole screen.

Note:
• Poor reception of TV programs can cause errors in Caption Vision and XDS. Captions may appear with a white box or other errors instead of the intended text.



SELECT OUT

— Output signal selection from SELECT OUT

You can select the desired output signal from the SELECT OUT jacks at the rear of the projection TV.



Note:

- SELECT OUT setting is not available for the inputs from VIDEO 5 (DTV) IN.

MONITOR:

Select to edit tapes while monitoring. SELECT OUT outputs the picture displayed on the screen.

VIDEO1-VIDEO4:

Select to edit tapes while viewing an input image different from that being recorded. SELECT OUT outputs the signal input to the projection TV regardless of the displayed picture on the screen.

TV OUT:

Select if you connect an AV receiver to VIDEO 1 IN. SELECT OUT outputs the signal that the TV is tuned to, regardless of the displayed picture. (see "Connecting an AV Receiver" on page 20 for connection)

If you select **TV OUT**, the following pop-up menu appears.

Select **YES** only if you have connected an AV receiver, with no other equipment, to your projection TV. You can always select the signal from the receiver by pressing TV/VIDEO once.



Select **NO** if you have connected multiple components to your projection TV. You can select an input (VIDEO1 - VIDEO4) with the TV/VIDEO button.

Note:

- The SELECT OUT signal is only available when the projection TV is on.

LANGUAGE

— User's preferred language

Select from available languages (**ENGLISH** or **ESPAÑOL**) to display all menus in your language of choice.

VIDEO LABEL

— Easy recognition of connected equipment (e.g. SAT, VHS, etc.)

This feature allows you to label each input mode so that you can easily identify the connected equipment (e.g. you can label VIDEO 1 IN as VHS).

With the VIDEO LABEL window open:

- 1 Move the joystick up or down to select the input mode you want to label and press **ENTER**.



- 2 Move the joystick up or down to select the label and press **ENTER**.

VIDEO LABEL Options:

VIDEO 1: VIDEO 1, VHS, 8mm, BETA, LD, SAT, DVD, AV RECEIVER, SKIP

VIDEO 2-4: VIDEO 2-4, VHS, 8mm, BETA, LD, SAT, DVD, SKIP

VIDEO 5: VIDEO 5, DTV, DVD, SKIP

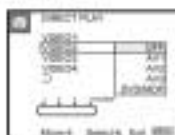
If you select **SKIP**, your projection TV will skip this connection when you scan through video sources using the **TV/VIDEO** button.

DIRECT PLAY

— Easy operation of a connected VCR

This feature allows you to switch the input mode from the TV to a Sony VCR (MDP or DVD) and start playing by only pressing the **▶** (playback) button on the remote control. You have to set the AV 1/2/3/DVD/MDP switch on the remote control (e.g., you connect your VCR to the VIDEO 3 IN jacks and set the AV 1/2/3/DVD/MDP switch to VTR 3). With the DIRECT PLAY window open:

- 1 Move the joystick up or down to select the input to which your video equipment is connected, and press **ENTER**.



- 2 Move the joystick up or down to select the position of the AV 1/2/3/DVD/MDP switch, and press **ENTER**.

Note:

- DIRECT PLAY setting is not available for the inputs from VIDEO 5 (DTV) IN.

FREEZE MODE

— Freeze picture mode

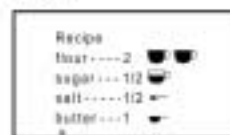
Useful when you need to copy down information that appears on the TV's screen.

Note:

- The FREEZE MODE feature is not available for the inputs from VIDEO 5 (DTV) IN jacks.

NORMAL:

Select to freeze the whole picture on the screen by pressing **FREEZE**.



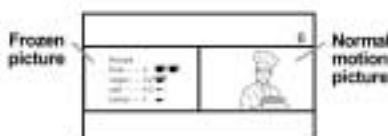
The current picture freezes.

TWIN:

Select to freeze the desired scene and display it on the left of the screen while viewing the normal picture of the current channel on the right by pressing **FREEZE**.

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This mode is not available for PIP, P&P or CH INDEX screens.



Press **FREEZE** again or press **OFF** to display the normal picture.

DTV INPUT

— Input signal selection from the DTV receiver

Select **Y PB PR** when you connect a DTV receiver to the Y/Pb/Pr jacks of VIDEO 5 (DTV) IN.

Select **R.G.B** when you connect a DTV receiver to the G/B/R/HD/VD jacks of VIDEO 5 (DTV) IN on the rear of the projection TV.

Using the PARENTAL CONTROL Feature

The TV programs and movies shown on TV are given a rating signal based on the following rating systems: Television Parental Guidelines to rate television programs (TV ratings), and Motion Picture Association of America (MPAA) Guidelines to rate movies including those shown on TV (movie ratings).

Note:

- The PARENTAL CONTROL feature is not available for the inputs from VIDEO 5 (DTV) IN.

Activating the PARENTAL CONTROL feature

First, set a password, then select your desired rating from Sony's predetermined ratings.

- 1 Select **PARENTAL CONTROL** from the SET UP menu. (see page 44)



- 2 Enter a four digit password* using the 0-9 buttons.



* Do not enter "4357" corresponding to "HELP" on a phone number pad. (see page 52)

- 3 To confirm the password, re-enter the same password with the 0-9 buttons. Your password is stored and the PARENTAL CONTROL menu automatically appears. If you want to change the password, see page 51.



- 4 Make sure that **PARENTAL LOCK** is highlighted, and press **ENTER**.



Adjusting Your SET UP menu

(continued) 47

- 5 Move the joystick up or down to select ON, and press $\odot$.



- 6 Move the joystick up or down to select RATING, and press $\odot$.



- 7 Move the joystick up or down to select a desired rating (CHILD, YOUTH and YOUNG ADULT), and press $\odot$.

If you want to select the ratings from "CUSTOM," go to step 4 of "Selecting a Custom Rating" on page 49.

- 8 Press MENU to exit the menu.

To deactivate the PARENTAL CONTROL feature

If you set PARENTAL LOCK in the PARENTAL CONTROL menu to OFF, the PARENTAL CONTROL feature will be canceled and you can view all TV programs and movies shown on TV.

- 1 Select PARENTAL CONTROL from the SET UP menu. (see page 44)



- 2 Enter your four digit password using the 0-9 buttons.

The PARENTAL CONTROL menu appears.



- 3 Move the joystick up or down to select PARENTAL LOCK, and press $\odot$.



- 4 Move the joystick up or down to select OFF, and press $\odot$.



- 5 Press MENU to exit the menu.

To unlock the PARENTAL CONTROL feature temporarily

When you select a PARENTAL CONTROL program, no sound or picture except for a channel number will appear. The $\odot$ indicator is displayed. To view the program, follow the steps below:

- 1 Press ENTER to display the "Password" screen.
- 2 Enter your password using the 0-9 buttons. PARENTAL CONTROL will be canceled (PARENTAL LOCK set to OFF) until you turn your projection TV off.

Selecting a Custom Rating

If you want to select the ratings to be blocked from CUSTOM once you have activated the PARENTAL CONTROL feature (see page 47), follow the procedure below.

For a detailed description of each rating, see pages 52 and 53.

- 1 Select PARENTAL CONTROL from the SET UP menu. (see page 44)



- 2 Enter your four digit password using the 0-9 buttons.

The PARENTAL CONTROL menu appears.



- 3 Move the joystick up or down to select RATING, and press $\odot$.



- 4 Move the joystick up or down to select CUSTOM, and press $\odot$.

First, select a TV rating.

- 5 Move the joystick up or down to select TV RATING, and press $\odot$.



- 6 Move the joystick up or down to select the TV rating to be blocked, and press $\odot$.



- 7 Move the joystick up or down to select $\odot$, and press $\odot$.

The $\odot$ indicator automatically appears beside the selected rating and all "higher" ratings, indicating that the programs that match the ratings will be blocked.

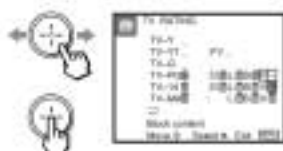


Some ratings have additional content ratings called "extenders." The extenders are defined as follows: D (sexually suggestive Dialog), FV (Fantasy Violence), L (coarse Language), S (Sexual situations) and V (Violence). By setting the extenders, you can define additional viewing limits. For more details of extenders, see page 53.

All of the extenders included in the selected ratings will be blocked. If you wish to allow any of them to be viewed, go to step 8.

(continued)

- 8 Move the joystick left or right to select the extender to be viewed, and press $\odot$.



- 9 Move the joystick up or down to select “TV” and press $\odot$.

“TV” appears beside the selected extender, indicating that the programs that match the extender can be viewed.

If you select $\odot$, $\odot$ is displayed to show that the programs that match the extender will be blocked again.



- 10 Repeat steps 8 and 9 for other extenders.

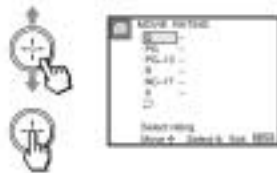
All programs that match the ratings you select and higher, except for the extenders that were canceled, will be blocked.

- 11 After setting of the TV rating is complete, move the joystick up or down to select $\odot$, and press $\odot$.



Second, select a movie rating.

- 12 Move the joystick up or down to select MOVIE RATING, and press $\odot$.

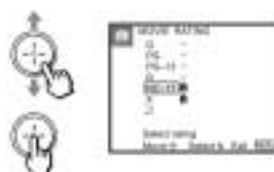


- 13 Move the joystick up or down to select the movie rating to be blocked, and press $\odot$.



- 14 Move the joystick up or down to select $\odot$, and press $\odot$.

The $\odot$ indicator automatically appears beside the selected rating and all “higher” ratings, indicating that the programs that match the ratings will be blocked.



- 15 Press MENU to exit the menu.

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To block TV programs and/or movies for which a rating signal is not given (NR and N/A)

For a description of the NR and N/A ratings, see page 53.

- 1 Perform steps 1–4 of “Selecting a Custom Rating” on page 49.

- 2 Move the joystick up or down to select UNRATED, and press $\odot$.



- 3 Move the joystick up or down to select the type of programs to be blocked, and press $\odot$.



- 4 Press MENU to exit the menu.

To block ...	Select ...
No program (to view any unrated TV program and movie)	VIEW ALL
Unrated TV programs	TV
Unrated movies	MOVIE
Unrated TV programs and movies	BOTH

Changing the Password

- 1 Select PARENTAL CONTROL from the SET UP menu. (see page 44)



- 2 Enter your four digit password using the 0–9 buttons.

The PARENTAL CONTROL menu appears.



- 3 Move the joystick up or down to select CHANGE PASSWORD, and press $\odot$.



(continued)

- 4 Enter a new four digit password using the 0-9 buttons.



- 5 Enter the password set in step 4 again to confirm.
If you entered it incorrectly, "Password incorrect" appears.
Re-enter the correct password.
- 6 Press MENU to exit the menu.

If you have forgotten your password

In step 1 of "Changing the Password," enter the master password "4357" (corresponding to "HELP" on a phone number pad). You can then store a new password.

Notes:

- If you entered "4357" as your password the first time, you cannot store a new password. (see step 2 of "Activating the PARENTAL CONTROL feature" on page 47)
- When you select a PARENTAL CONTROL program and the indicator is displayed on the screen, you cannot view that program even if you enter "4357." (see "To unlock the PARENTAL CONTROL feature temporarily" on page 48)

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NR (Not Rated):

This is a film that a producer has not rated, intending to have his film widely released.

N/A (Not Applicable):

This is a film that a producer considers outside the scope of the MPAA ratings.

Note:

- NR and N/A ratings are shown together as UNRATED in the menu.

TV ratings

TV ratings are for TV programs rated according to the Television Parental Guidelines.

TV-Y (All Children):

This program is designed for young children aged 2-6 and is appropriate for all children.

TV-Y7 (Directed to Older Children):

This program is designed for children aged 7 and above. Themes and elements in this program may include mild fantasy violence or slapstick violence, or may frighten children under the age of 7.

TV-G (General Audience):

Most parents would find this program suitable for all ages. It contains little or no violence, no strong language and little or no sexual dialog or situations.

TV-PG (Parental Guidance Suggested):

This program contains some material that parents may find unsuitable for younger children.

What the Ratings Mean

Sony's predetermined ratings

These are original ratings that Sony predetermined according to the viewer's age. Each rating allows you to view the certain programs, as follows.

See the center column to page 53 for a description of TV and movie ratings.

CHILD:

Suitable for children under the age of 6.

Viewable movie ratings: G, NR, and N/A

Viewable TV ratings: TV-Y, TV-G, and TV-NR

YOUTH:

Suitable for children aged 7 and older.

Viewable movie ratings: G, PG, NR, and N/A

Viewable UTV ratings: TV-Y, TV-Y7, TV-G, TV-PG, and TV-NR

YOUNG ADULT:

Suitable for children aged 14 and older.

Viewable movie ratings: G, PG, PG-13, NR, and N/A

Viewable TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, TV-14, and TV-NR

Movie ratings

Movie ratings are for movies (including those shown on TV) rated according to the Motion Picture Association of America (MPAA) Guidelines.

G (General Audiences—All Ages Admitted):

In G-rated films no strong words are used, the violence is at a minimum, nudity and sex scenes are not present, nor is there any drug use.

PG (Parental Guidance Suggested. Some Material May Not Be Suitable For Children):

This is a film which may need to be monitored first by parents.

PG-13 (Parents Strongly Cautioned. Some Material May Be Inappropriate For Children Under 13):

Parents are alerted to be very careful about the attendance of their under-teenage children when viewing.

R (Restricted, Under 17 Require Accompanying Parent Or Adult Guardian):

This film includes hard language, tough violence, nudity, drug abuse or other elements of concern.

NC-17 or X (No One 17 Or Under Admitted.):

This is a film that most parents would consider not suitable for children aged 17 and under. There may be violence, sex, aberrational behavior, drug abuse or other elements of concern.

TV-14 (Parents Strongly Cautioned):

This program contains some material that many parents would find unsuitable for children under the age of 14.

TV-MA (Mature Audience Only):

This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under the age of 17.

TV-NR (Not Rated/Unrated):

This is a program broadcast without any rating, such as news, news flashes or sports.

Note:

- The TV-NR rating is shown as UNRATED in the menu.

About the extenders of TV ratings

TV-Y7, TV-PG, TV-14 and TV-MA ratings have additional content ratings called "extenders" to define additional viewing limits. The extenders are defined as follows:

D (sexually suggestive Dialog):

Programs containing suggestive dialog, or sexual innuendo

FV (Fantasy Violence):

Programs containing cartoon violence occurring in TV-Y7 programs only

L (coarse Language):

Programs containing coarse language

S (Sexual situations):

Programs containing sexual content

V (Violence):

Programs containing violence

There may be some profanity, violence or brief nudity in these programs.

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Additional Operations

Operating Video Equipment

Setting the Manufacturer's Code

You can use the supplied remote control to operate Sony or non-Sony video equipment that has an infrared sensor.

- 1 Set the AV1/2/3/DVD/MDP switch to the input through which you would like to access your video equipment.

The following Sony equipment is preset to each input as shown below:

AV1 (303)	Beta, ED Beta VCRs
AV2 (302)	8 mm VCR
AV3 (301)	VHS VCR
DVD/MDP (751)	DVD Player

- 2 Press CODE SET, DVD/VCR (FUNCTION), and the 0-9 buttons to enter the manufacturer's code number (see the following chart), then press ENTER.

For example, to operate a Sony 8mm VCR:



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If the remote control doesn't work

- See the tips on page 56.

VCR manufacturer code numbers

Manufacturer	Code
Sony	301, 302, 303
Aiwa	338
Admiral (M. Ward)	327
Audio Dynamic	314, 337
Baird & Howell (M. Ward)	330, 343
Brunswick	319, 317
Canon	309, 308
Chiconi	332
Craig	315, 302, 332
Criterion	315
Curtis Mathis	304, 338, 309
Dawson	341, 312, 309
DBX	314, 336, 337
Dinamica	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 334, 335, 333
Furui	338
General Electric	329, 304, 309
Go Video	340, 339, 322
Goldstar	332
Hitachi	306, 304, 305, 338
Instant Replay	309, 308
J.C. Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337
Karwood	314, 336, 332, 337
LXI (Sears)	332, 305, 333, 334, 330, 335, 338
Magnavox	308, 309, 310
Matsushita	314, 336, 337
Mitsubishi	332
Mosconi	309, 335
Mitsubishi	305, 304

Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimas	327
Panasonic	308, 309, 306, 307
Penta	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/PROSCAN	304, 305, 304, 309, 311, 329, 312, 313, 310
Realistic	309, 330, 328, 335, 324, 334
Sansui	314
Seagor	315
Samsung	322, 313, 321
Sanyo	330, 335
Scot	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shinon	315
Signature 2000 (M. Ward)	338, 327
Sylvania	308, 309, 338, 310
Symphonic	338
SV2000	338
Tachino	332
Tanaka	314, 336, 337
Teco	314, 336, 338, 337
Technics	309, 308
Teknica	342, 338
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
XR-1000	315
Yamaha	330, 314, 336, 337
Zenith	331

MDP manufacturer code numbers

Manufacturer	Code
Sony	701
Panasonic	704
Pioneer	702

DVD Player manufacturer code numbers

Manufacturer	Code
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754

Tips

- In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. In this case, please use the equipment's own remote control.
- When you remove the batteries, the code number may revert to the factory setting.

Operating video equipment

- 1 Set the AV1/2/3/DVD/MDP switch to the input through which you would like to access your video equipment.
- 2 Press DVD/VCR (FUNCTION).
- 3 Use the VCR/DVD/MDP operation buttons indicated in the following tables.

Operating a VCR using the remote control

To turn On/Off	Press DVD/VCR (POWER) [Green Button]
To select a channel	Press the 0-9 buttons.
To change channels	Press CH +/—
To record	Press (REC) while pressing (Eject)
To play	Press ▶
To stop	Press ■
To fast forward	Press ►►
To rewind the tape	Press ◄◄
To pause	Press . Press again to resume normal playback.
To search the picture forward or backward	Press ►► or ◄◄ during playback. Release to resume normal playback.
To change input mode	Press TV/VCR.

Operating an MDP using the remote control

To turn On/Off	Press DVD/VCR (POWER) [Green Button]
To play	Press ▶
To stop	Press ■
To pause	Press . Press again to resume normal playback.
To search the picture forward or backward	Press ►► or ◄◄ during playback. Release to resume normal playback.
To search a chapter forward or backward	Press CH +/—

Operating a DVD Player using the remote control

To turn On/Off	Press DVD/VCR (POWER) [Green Button]
To play	Press ▶
To stop	Press ■
To pause	Press . Press again to resume normal playback.
To step through different tracks of an audio disc	Press ►► to step forward or ◄◄ to step backward.
To step through different chapters of a video disc	Press CH+ to step forward or CH- to step backward.
To display the Title menu	Press TITLE.
To display the DVD menu	Press DVD MENU.
To select tracks directly	Press 0-9 buttons.
To display the menu (Set up)	Press MENU.

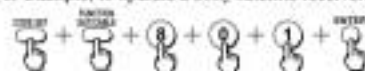
Operating a Cable Box or Satellite Receiver (SAT)

Setting the Manufacturer's Code

You can program the supplied remote control to operate a cable box or satellite receiver.

Press CODE SET, SAT/CABLE (FUNCTION), and the 0-9 buttons to enter the manufacturer's code number (see the following chart), then press ENTER.

For example, to operate a Sony satellite receiver:



Manufacturer code numbers (cable box)

Manufacturer	Code
Genie	233
Harris/Regal	222, 223, 224, 225, 226
Jerrold/G.L.	201, 202, 203, 204, 205, 222, 206, 207, 208, 218
Maxon	230, 231, 232
Magnavox	234
Osh	227, 228, 229
Panasonic	219, 220, 221
Philips	236, 237, 238, 239, 240, 241
Pioneer	214, 215
Samsung	235
Scientific Atlanta	209, 210, 211
Toscan	216, 217
Zenith	212, 213

Manufacturer code numbers (Satellite receiver)

Manufacturer	Code number
Sony	801 (preset code for remote control)
General Electric	802
RCA/PHILIPCAN	803

Operating a cable box or satellite receiver

- 1 Press SAT/CABLE (POWER) [Green Button] to turn on/off the cable box or satellite receiver.
- 2 Press SAT/CABLE (FUNCTION).
- 3 For other operations, refer to the operating instructions that come with the equipment. Blue-labeled buttons such as the GUIDE button can be used only with a satellite

receiver.

If the remote control doesn't work

- Try repeating the set up procedures using the other codes listed for your equipment.

To operate the projection TV

Press TV (FUNCTION). Then use the projection TV control buttons to control the projection TV.

Tips:

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's own remote control unit.
- Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code numbers may revert to the factory setting and must be reset.

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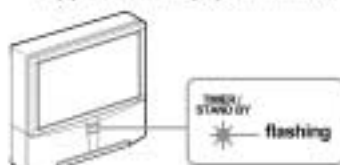
Additional Information

Troubleshooting

If, after reading the following instructions, you have additional questions related to the use of your Sony projection TV, please call one of the following numbers (English only). Customers in the continental United States contact the Sony Customer Information Service Center at: 1-800-222-SONY (7669). Customers in Canada contact the Sony Customer Relations Center at: (416) 499-SONY (7669).

The picture turns off and the TIMER/STAND BY indicator on the front panel flashes (self-diagnosis function)

- The projection TV is equipped with a self-diagnosis function. If there is a problem with your projection TV, the TIMER/STAND BY indicator on the front panel will flash repeatedly. Counting the number of flashes helps you inform qualified Sony personnel of the projection TV's condition.



- 1 Count how many times the TIMER/STAND BY indicator flashes in total. It flashes twice at 3 seconds' intervals. If, for example, the indicator flashes twice, stops flashing for 3 seconds, and flashes twice again, that counts as twice.
- 2 Press POWER on the projection TV to turn it off, then inform qualified Sony personnel or the above Direct Response Center of the number of flashes.

No picture (screen not lit), no sound

- Make sure the power cord is plugged in.
- Operate with the buttons on both the projection TV and the remote control.
- Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO 1, 2, 3, 4 or 5.
- Try another channel. It could be station trouble.
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 25)
- The PARENTAL CONTROL feature is activated. (see "Using the PARENTAL CONTROL Feature" on page 47)

Remote control does not operate

- Batteries could be weak. Replace the batteries.
- Press TV (FUNCTION) when operating your projection TV.
- Make sure the projection TV's power cord is connected securely to the wall outlet.
- Locate the projection TV at least 3-4 feet away from fluorescent lights.
- Check the polarity of the batteries.

Dark, poor or no picture (screen lit), good sound

- Adjust PICTURE in the VIDEO menu. (see "PICTURE" on page 36)
- Adjust BRIGHTNESS in the VIDEO menu. (see "BRIGHTNESS" on page 36)
- Check antenna/cable connections.
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 25)
- Adjust the convergence again using the FLASH FOCUS button. (see "Adjusting the Convergence Automatically (FLASH FOCUS)" on page 25)

Good picture, no sound

- Press MUTE so that "MUTE" disappears from the screen. (see "MUTE" on page 26)
- Check the MTS setting in the AUDIO menu. (see "MTS" on page 37)
- Make sure SPEAKER is set to ALL ON or L/R OFF in the AUDIO menu. (see "SPEAKER" on page 38)
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 25)

(continued)

Cannot receive digital channels (when a DTV receiver is connected)

- Check the DTV INPUT setting in the SET UP menu. (see "DTV INPUT" on page 47)
- Check the connections between the DTV receiver and the projection TV. (see pages 12 and 13)
- Check your local listings to find out if you can receive digital broadcasts in your area.

Cannot receive upper channels (UHF) when using an antenna

- Make sure CABLE is OFF in the CHANNEL SET UP menu. (see "CABLE" on page 42)
- Use AUTO PROGRAM to add receivable channels that are not presently in the TV's memory. (see "AUTO PROGRAM" on page 42)

No color

- Adjust the COLOR in the VIDEO menu. (see "COLOR" on page 36)
- Black and white programs cannot be seen in color.
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 25)

Only snow and noise appear on the screen

- Check the CABLE setting in the CHANNEL SET UP menu. (see "CABLE" on page 42)
- Check the antenna/cable connections.
- Make sure the channel is broadcasting programs.
- Press ANT to change the input mode. (see "ANT" on page 26)

Dotted lines or stripes

- Adjust the antenna.
- Keep the projection TV away from noise sources such as cars, neon signs or hair-dryers.

TV is fixed to one channel

- Use AUTO PROGRAM to add receivable channels that are not presently in TV's memory. (see "AUTO PROGRAM" on page 42)
- Try turning CHANNEL FIX off. (see "CHANNEL FIX" on page 42)

Double images or ghosts

- Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

Cannot operate the menu

- If the item you want to choose appears in gray, you cannot select it.
- Press the projection TV's power button off and on again.

Cannot receive any channels when using cable TV

- Check the connection with a cable box again. (see pages 9 and 11)
- Make sure CABLE is ON in the CHANNEL SET UP menu. (see "CABLE" on page 42)
- Use AUTO PROGRAM to add receivable channels that are not presently in the TV's memory. (see "AUTO PROGRAM" on page 42)

Cannot gain enough volume when using a cable box

- Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the projection TV's volume.

CHANNEL INDEX does not display all available channels

- Make sure CABLE is ON in the CHANNEL SET UP menu. (see "CABLE" on page 42)
- Use AUTO PROGRAM to add receivable channels that are not presently in the TV's memory. (see "AUTO PROGRAM" on page 42)

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FAVORITE CHANNEL does not display your choices

- Verify that FAVORITE CHANNEL is set to MANUAL in the CHANNEL SET UP menu. (see "Setting FAVORITE CHANNEL manually" on page 43)

Some video sources do not appear when you press TV/VIDEO

- Ensure that VIDEO LABEL is not set to SKIP. (see "VIDEO LABEL" on page 46)

Recording through SELECT OUT does not function properly when recording in PIP or P&P mode

- SELECT OUT will not record both images in PIP or P&P. Only the main picture will be recorded.
- If you are recording the main picture and you switch to the sound of the sub picture using the AUDIO button, the main picture will be recorded with sound from the other program.

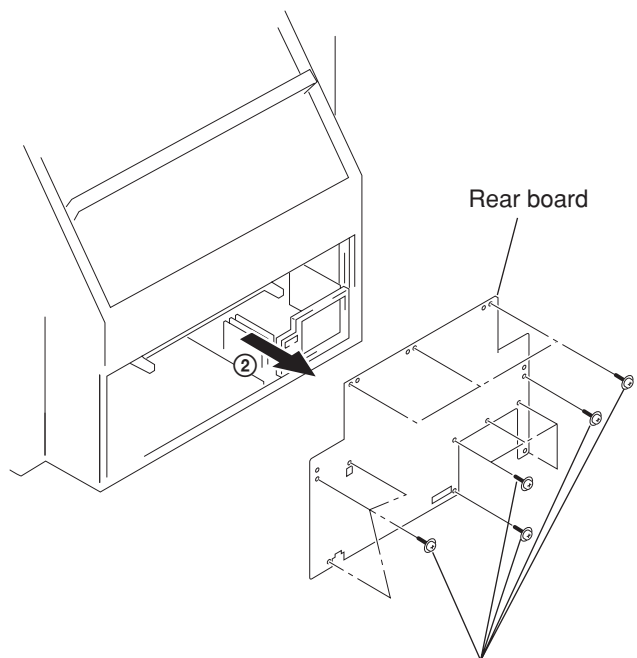
Cannot play shooting games

- Some shooting games which involve pointing a light beam at the TV screen with an electronic gun or rifle cannot be used with this projection TV. For details, see the instruction manual supplied with the video game software.

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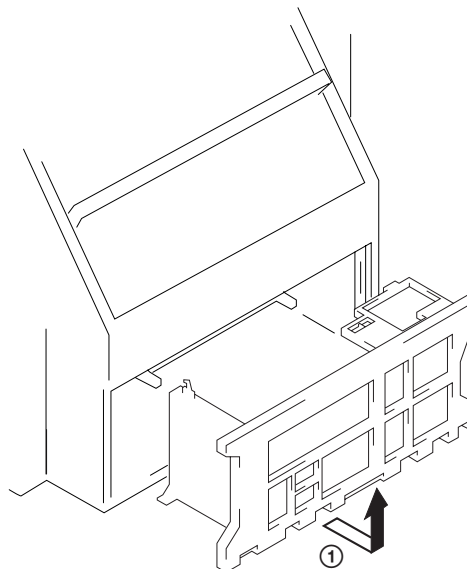
SECTION 2 DISASSEMBLY

2-1. REAR BOARD REMOVAL

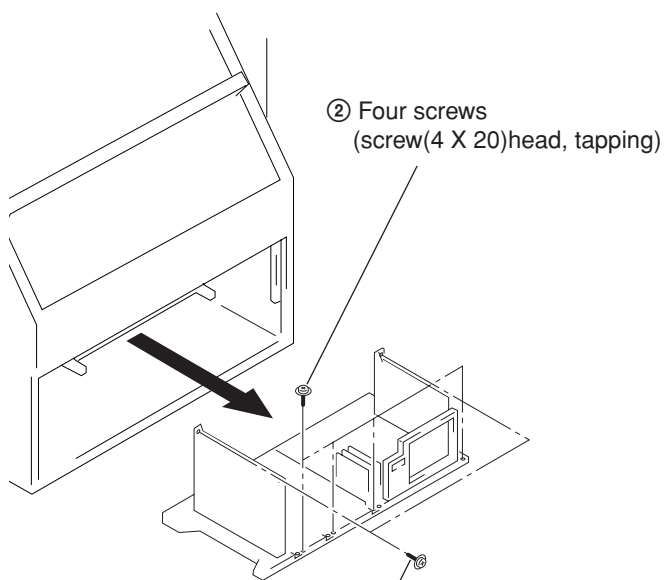


- ① Fourteen screws (KP-57XBR10W)
Thirteen screws (KP-65XBR10W)
(screw(4 X 20), tapping)

2-3. SERVICE POSITION

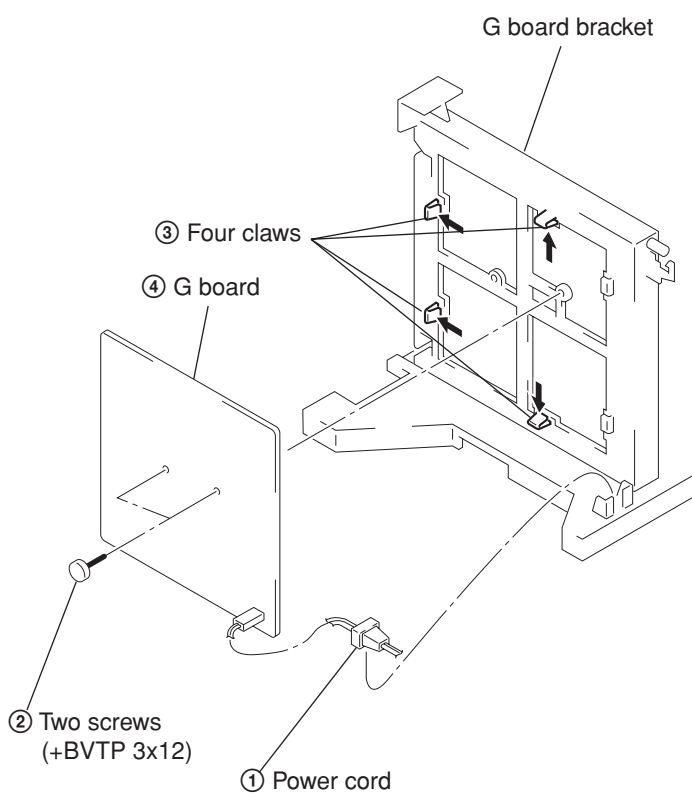


2-2. MAIN BRACKET REMOVAL

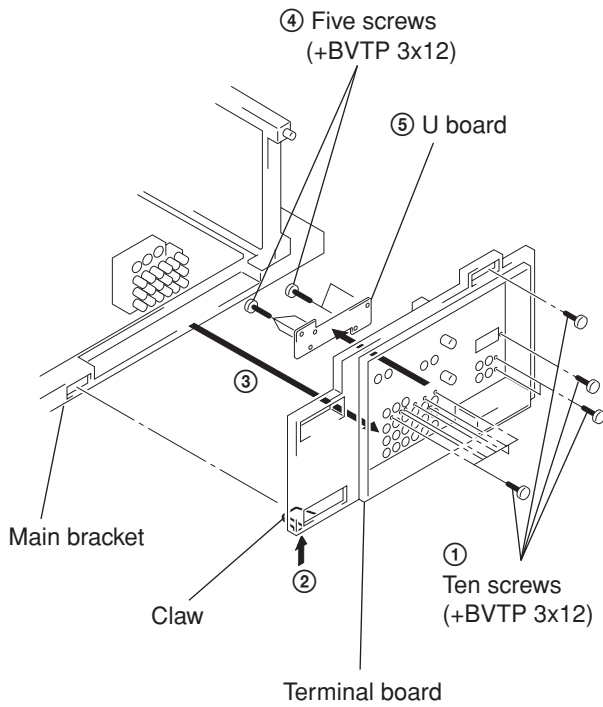


- ① Two screws
(+BVTP 4 X 12)

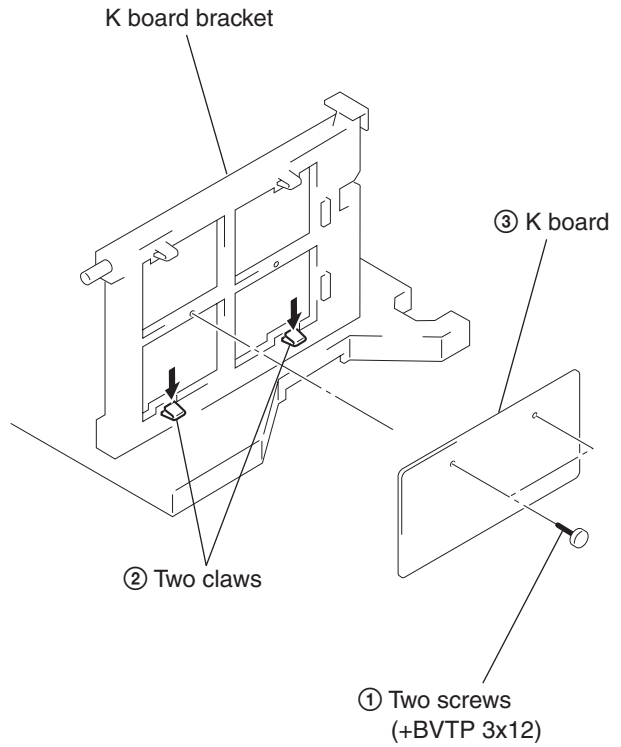
2-4. G BOARD REMOVAL



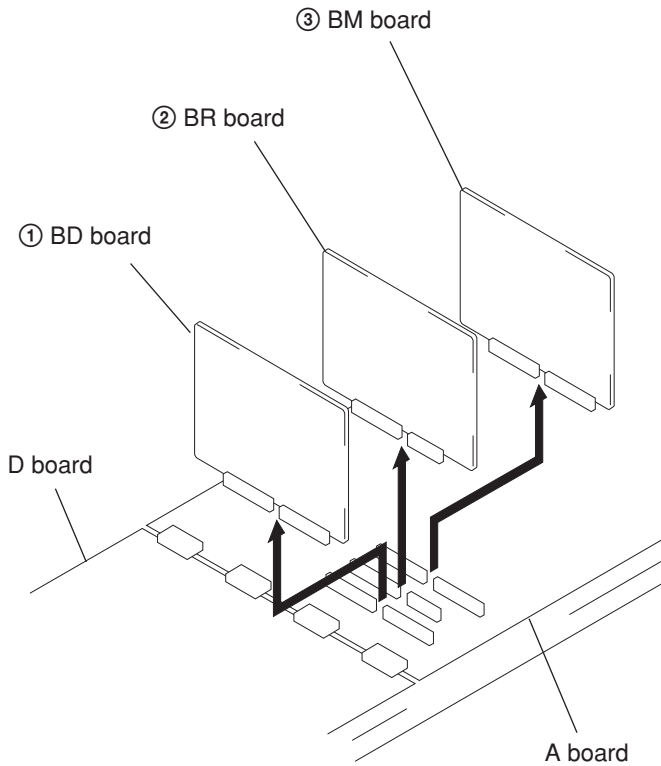
2-5. TERMINAL BOARD AND U BOARD REMOVAL



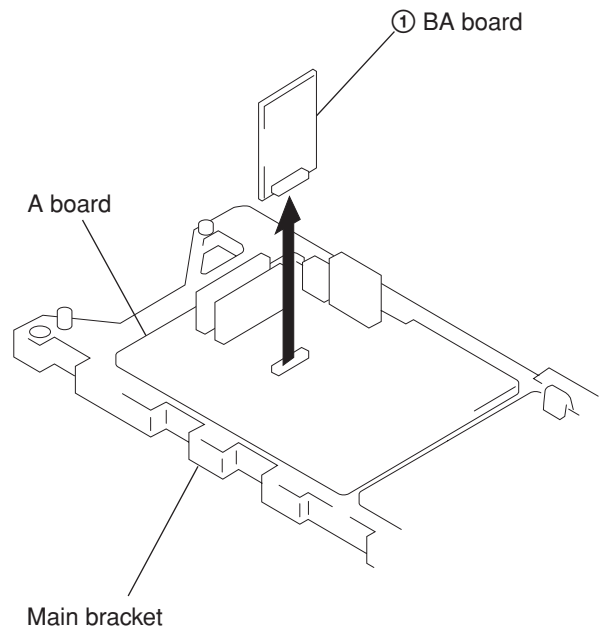
2-7. K BOARD REMOVAL



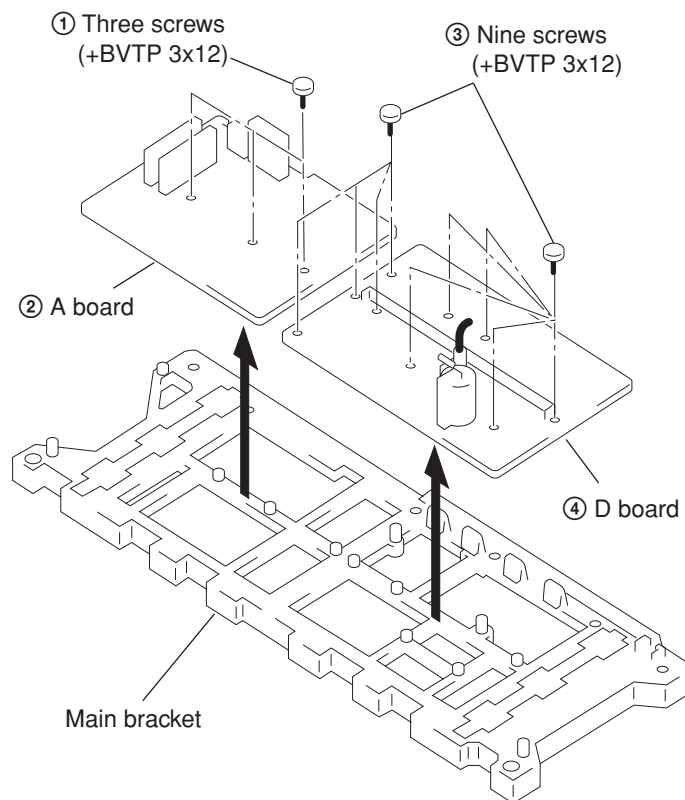
2-6. BM, BR AND BD BOARD REMOVAL



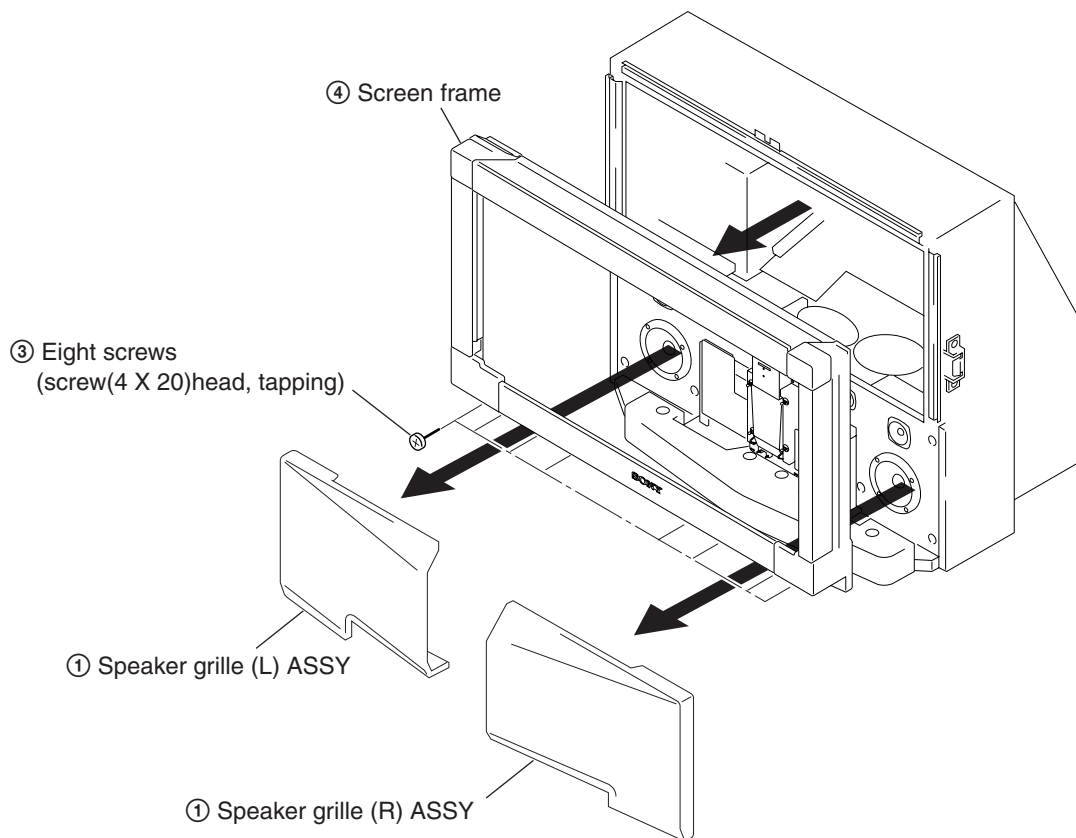
2-8. BA BOARD REMOVAL



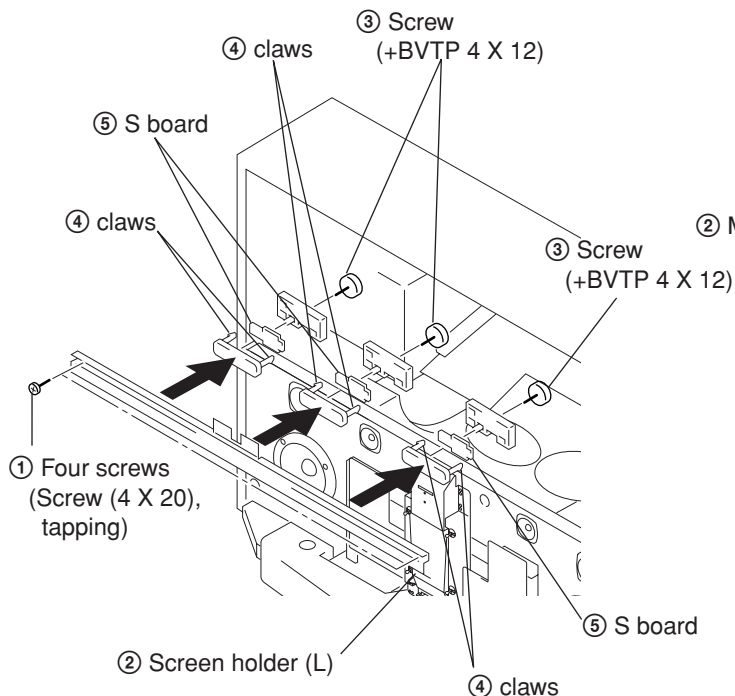
2-9. A AND D BOARD REMOVAL



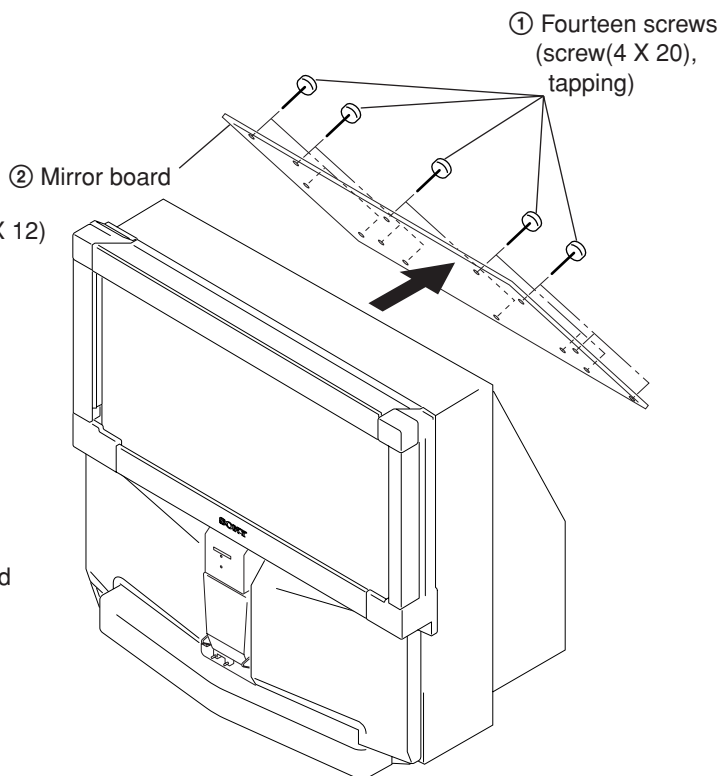
2-10. SCREEN FRAME REMOVAL



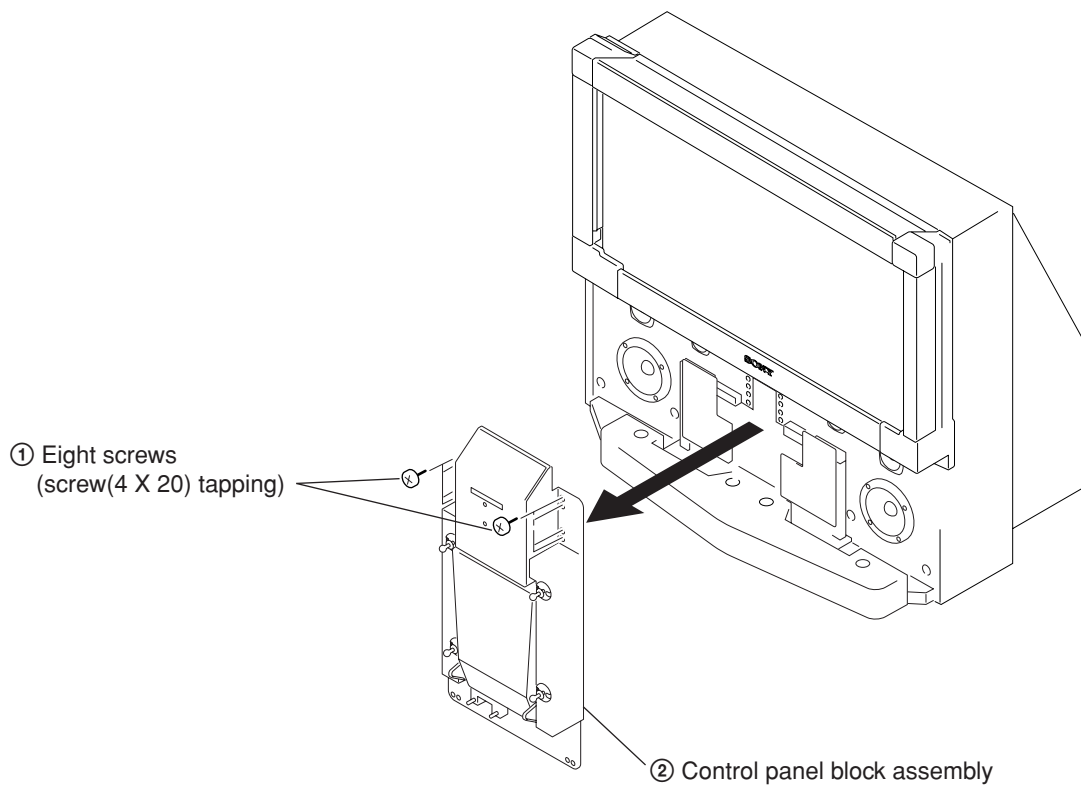
2-11. S BOARD REMOVAL



2-12. MIRROR BOARD REMOVAL

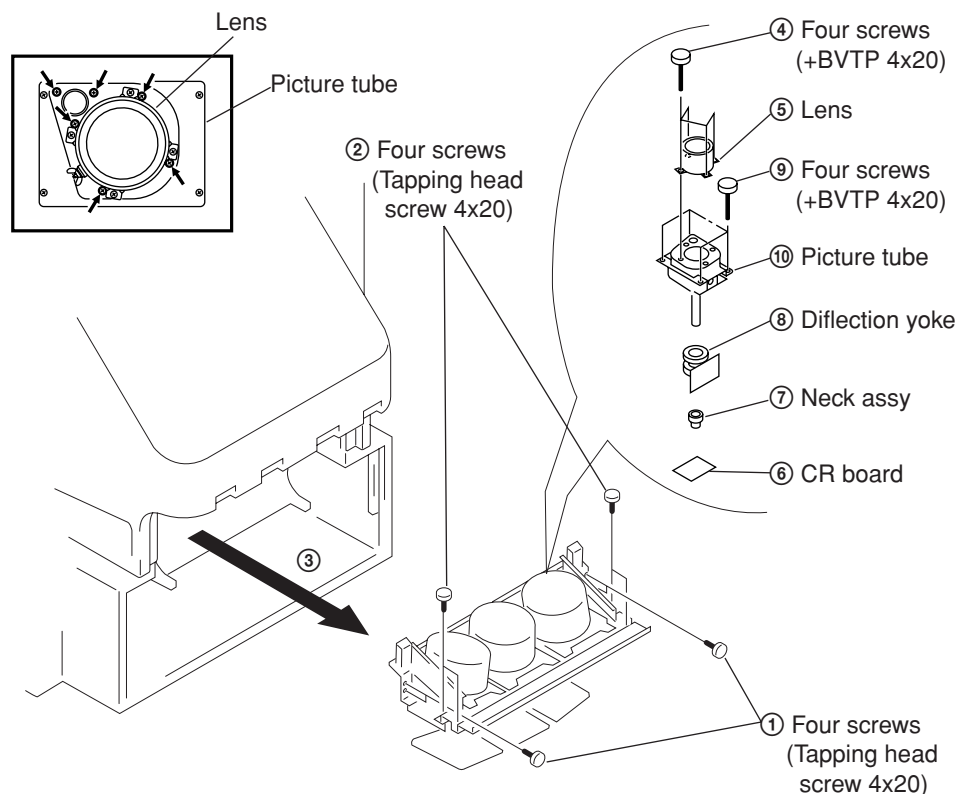


2-13. CONTROL PANEL BLOCK ASSEMBLY REMOVAL



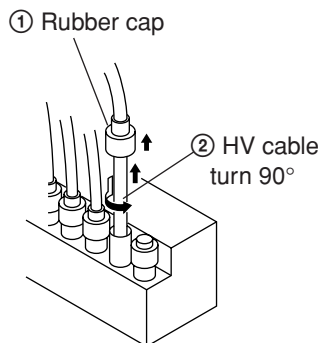
2-14. PICTURE TUBE REMOVAL

CAUTION: Removing the arrow-marked screws is strictly prohibited.
If removed, it may cause liquid spill.

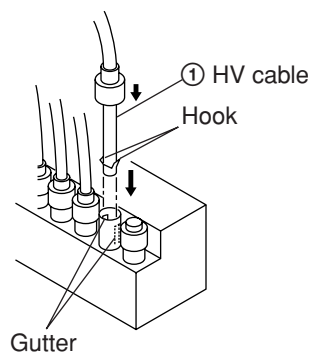


2-15. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

(1) Removal



(2) Installation

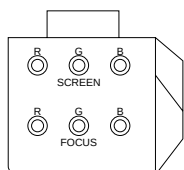


SECTION 3

SET-UP ADJUSTMENTS

3-1. SCREEN VOLTAGE ADJUSTMENT (COARSE ADJUSTMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the FOCUS block all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.



FOCUS block

Fig. 3-1

3-2. SCREEN (G2) ADJUSTMENT (FINE ADJUSTMENT)

Fine Mode is recommended to set screen controls to their optimal condition. It is necessary to build the simple jig, illustrated below, using 3-watt resistors. Please note, that if the proper voltage is not obtained with their listed values, resistors, then please increase or decrease one of the values in the resistor network to obtain the correct voltage.

1. Select VIDEO1 mode without signals.
2. Connect G2 JIG.
3. SW on JIG.
4. Connect an oscilloscope to the TP7103(KR), TP7203(KG) and TP7303(KB) of CR board, CG board and CB board.
5. Adjust R, G and B screen voltage to $175 \pm 2V$ with screen VR on the Focus block.

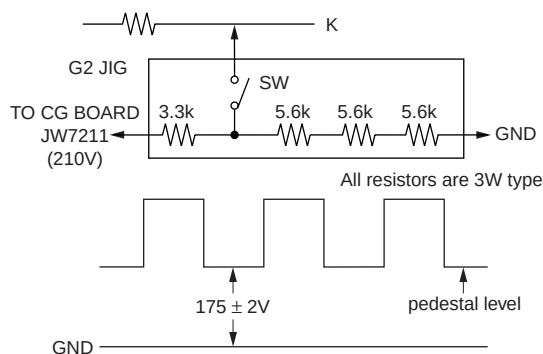


Fig. 3-2

3-3. DEFLECTION YOKE TILT ADJUSTMENT

1. Connect the color bar generator Crosshatch pattern to Video 1 input.
2. Cover the both red and blue picture lenses with the lens caps to show only the green color.
3. Loosen the deflection yoke set screw and align the tilt of the Deflection Yoke so that the bars at the center of the monoscope pattern are horizontal.
4. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
5. The tilt of the deflection yoke for red is aligned in the mode Cover the both green and blue picture lenses with the lens caps and the tilt of the deflection yoke for blue is aligned with in

the mode Cover the both green and red picture lenses with the lens caps is aligned the same as was done for green.

Note: Instead of items 2 and 5, you can cut off the unnecessary color beams by controlling the service mode MCP1 07 RON, 08GON, and 09BON.

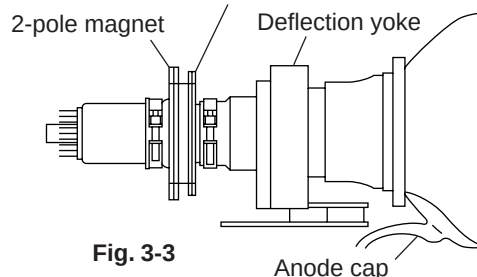


Fig. 3-3

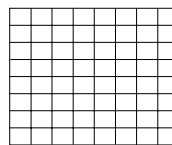
3-4. FOCUS LENS ADJUSTMENT

In this adjustment, use the remote commander in the service mode.

For details of the usage of the service mode and the remote commander, please refer the item 3-9. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER.

1. Loosen the lens screw.
2. Cover the both red and blue picture lenses with the lens caps to show only the green color.
3. Turn the green lens to adjust to the optimum focus point with the crosshatch signal.
4. Tighten the lens screw.
5. Cover the both green and blue picture lenses with the lens caps to show only the red color.
6. Adjust red CRT lens just the same as green.
7. Cover the both green and red picture lenses with the lens caps to show only the blue color.
8. Adjust blue CRT lens just the same as green.
9. After adjusting the items 3-5. Focus VR Adjustment, 3-6. 2-Pole Magnet Adjustment and 3-7. 4-Pole Magnet Adjustment, adjust again to the optimum focus point.

*: Every time you press 6, the test signal changes to "crosshatch+video signal" - "dots+video signal" - "crosshach(black)" - "dots(black)" - off.



Test signal

Fig. 3-4

Note: Instead of items 2, 5 and 7, you can cut off the unnecessary color beams by controlling the service mode MCP1 07 RON, 08GON, and 09BON.

3-5. FOCUS VR ADJUSTMENT

1. Set generator to crosshatch.
2. Cover the both red and blue picture lenses with the lens caps to show only the green color.
3. Turn the green focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
4. Cover the both green and blue picture lenses with the lens caps to show only the red color.
5. Turn the red focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
6. Cover the both green and red picture lenses with the lens caps to show only the blue color.
7. Turn the blue focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
8. After adjusting the items 3-4. Focus Lens Adjustment, 3-6. 2-Pole Magnet Adjustment and 3-7. 4-Pole Magnet Adjustment, adjust again to the optimum focus point.

Note: Instead of items 2, 4 and 6, you can cut off the unnecessary color beams by controlling the service mode MCP1 07 RON, 08 GON, and 09 BON.

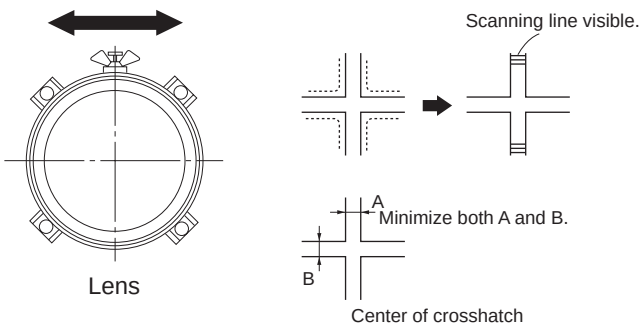


Fig. 3-5

3-6. 2-POLE MAGNET ADJUSTMENT (GREEN,RED)

1. Receive the Dot signal.
2. Cover the both red and blue picture lenses with the lens caps to show only the green color.
3. Turn the green focus VR on the focus block to the left and set to overfocus to enlarge the spot.
4. Adjust 2-pole magnet so that the bright spot should be centered.
5. Align the green focus VR and set for just (precise) focus.
6. Perform the same alignment for red and blue.

Note: Instead of item 2 you can cut off the unnecessary color beams by controlling the service mode MCP1 07 RON, 08GON, and 09BON.

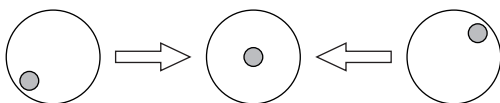


Fig. 3-7

3-7. 4-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Cover the both red and blue picture lenses with the lens caps to show only the green color.
3. Turn the green focus VR on the focus block to the right and set the spot will become smaller.
4. Adjust the 4-Pole Magnet so that the spot becomes round for green and red.
5. Perform the same alignment for blue.

Note: Instead of item 2 you can cut off the unnecessary color beams by controlling the service mode MCP1 07 RON, 08GON, and 09BON.

Use the center dot

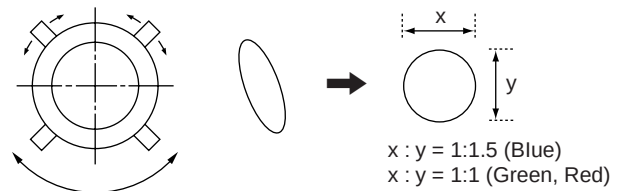


Fig. 3-8

3-8. DEFOCUS ADJUSTMENT (BLUE)

Note: Please adjust the blue dot to be slightly larger than red and green dots. This adjustment provides a more pleasing picture to the customer.

1. Select the picture mode to "VIVID"
2. Receive the Dot signal.
3. Cover the both red and green picture lenses with the lens caps to show only the blue color.
4. Turn the blue focus VR on the focus block to right to make the round dot elipical.
5. Check flare with high luminance signal, make sure flare is minimal while dot shape is elipical.
6. Set generator to all white signal and check uniformity.

Note: Instead of item 3 you can cut off the unnecessary color beams by controlling the service mode MCP1 07 RON, 08GON, and 09BON.

3-9. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

By using Remote Commander (RM-Y907), all circuit adjustments can be made.

NOTE : Test Equipment Required.

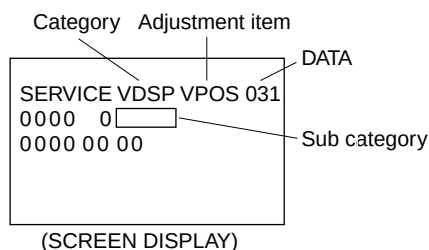
1. Pattern Generator (with component outputs)
2. Frequency counter
3. Digital multimeter
4. Audio oscillator

1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

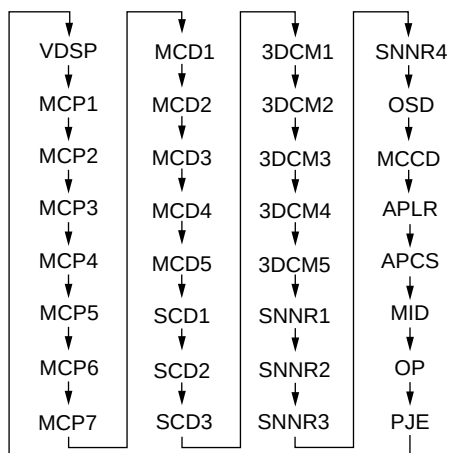
1. Standby mode. (Power off)
2. **DISPLAY** → **5** → **VOL (+)** → **TV POWER** on the Remote Commander.
(Press each button within a second.)

SERVICE MODE ADJUSTMENT



3. The SCREEN displays the item being adjusted.
4. Press **1** or **4** on the Remote Commander to select the adjustment item.
5. Press **3** or **6** on the Remote Commander to change the data.
6. Press **2** or **5** on the Remote Commander to select the category.

Every time you press 2(Category up), Service mode changes in the order as shown below.



7. If you want to recover the latest values press **0** then **ENTER** to read the memory.

8. Press **MUTING** then **ENTER** to write into memory.

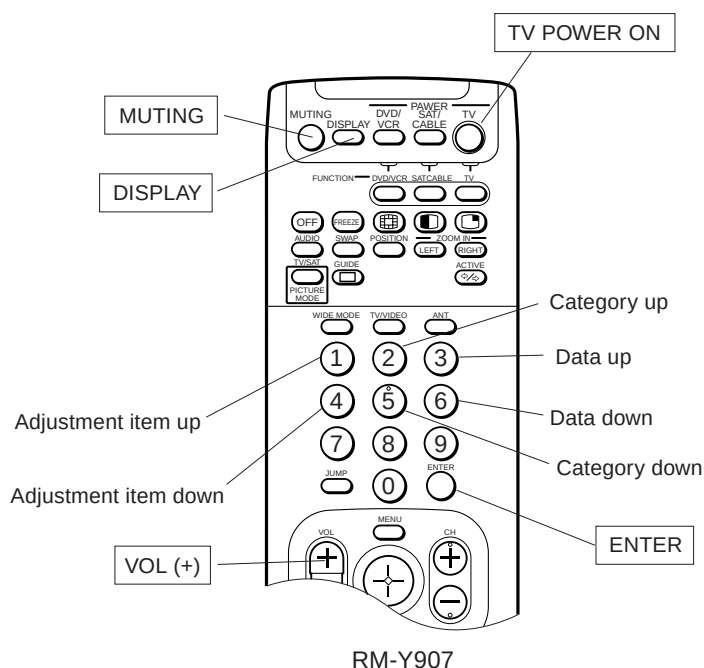
9. Turn power off.

Note: Press **8** then **ENTER** on the Remote Commander to initialize or turn set off and on to exit.

2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, remove the plug from AC outlet, and then replace the plug in AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again and confirm they were adjusted.

3. ADJUSTING BUTTONS AND INDICATOR



Note : When the PJE mode is activated, which displays an internally generated signal, several buttons on the remote commander will have different functions than listed above. Therefore, when in the PJE mode, refer to page 45 for button functions.

4. SERVICE MODE LIST

Note: • shaded items are fixed. There is no need to change data. Others are different a little in the sets individually. Basically, there is no need to change data, too.
 • Usually, there is no need to adjust except for VDSP and PJE. Use data as a reference in case of replacing printed circuit boards or devices.
 () in the category column is the sub category.

VDSP (Vertical Deflection Signal Processor)

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
VDSP	00	VPOS	31	0-63	V SHIFT	CXD2018Q
	01	VANG	7	0-15	V ANGLE	
	02	VBOW	7	0-15	V BOW	
	03	VLIN	7	0-15	V LIN	
	04	VSIZ	31	0-63	V SIZE	
	05	VSCO	7	0-15	S CORRECTION	
	06	HPOS	41	0-63	H SHIFT	
	07	HSIZ	31	0-63	H SIZE	
	08	HKEY	11	0-15	TILT	
	09	PAMP	15	0-63	PIN AMP	
	10	UPIN	7	0-15	UPPER CORNER PIN	
	11	LPIN	7	0-15	LOWER CORNER PIN	

MCP (Multi Component Processor)

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MCP 1	00	RDRV	31	0-63	R DRIVE	CXA2101AQ
	01	GDRV	31	0-63	G DRIVE	
	02	BDRV	31	0-63	B DRIVE	
	03	RCUT	31	0-63	R CUTOFF	
	04	GCUT	10	0-63	G CUTOFF	
	05	BCUT	31	0-63	B CUTOFF	
	06	P ON	1	0,1	P ICON	
	07	R ON	1	0,1	R ON	
	08	G ON	1	0,1	G ON	
	09	B ON	1	0,1	B ON	
	10	PABL	15	0-15	PEAK ABL LEVEL	
	11	L TIL	0	0-3	L TI LEVEL	
	12	C TIL	1	0,1	C TI LEVEL	
	13	LIMIT	2	0-3	INPUT LEVEL LIMIT	
	14	CBO1	7	0-15	CB OFFSET 1	
	15	CRO1	7	0-15	CR OFFSET 1	
	16	CBO2	7	0-15	CB OFFSET 2	
	17	CRO2	7	0-15	CR OFFSET 2	
	18	DCTR	1	0-3	DC TRAN	
	19	DPIC	1	0-3	D PIC	
	20	ABLT	1	0-3	ABL T/H (ACTIVE ON 16 :9)	
	21	VTC	2	0-3	V SYNC SFP TC	
	22	CBO3	7	0-15	CB OFFSET3	
	23	CRO3	7	0-15	CR OFFSET3	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MCP2 (DRC 480p/720p)	00	SCON	5	0-15	SUB CONTRAST	
	01	SBRT	31	0-63	SUB BRIGHTNESS	
	02	SHUE	7	0-15	SUB HUE	
	03	SCOL	12	0-15	SUB COLOR	
MCP3 (1080i)	00	SCON	3	0-15	SUB CONTRAST	
	01	SBRT	31	0-63	SUB BRIGHTNESS	
	02	SHUE	7	0-15	SUB HUE	
	03	SCOL	5	0-15	SUB COLOR	
MCP 4 (TV)	00	SSHP	3	0-3	SUB SHARPNESS	
	01	SHPF	1	0-3	SHARPNESS #0	
	02	VMDL	2	0-3	VM DELAY	
	03	SYS	2	0-3	SYSTEM	
MCP 5 (VIDEO)	04	PREO	0	0-3	PRE/OVER RATIO	
	00	SSHP	3	0-3	SUB SHARPNESS	
	01	SHPF	1	0-3	SHARPNESS #0	
	02	VMDL	2	0-3	VM DELAY	
MCP 6 (1080i/480p/720p)	03	SYS	2	0-3	SYSTEM	
	04	PREO	1	0-3	PRE/OVER RATIO	
	00	SSHP	3	0-3	SUB SHARPNESS	
	01	SHPF	2	0-3	SHARPNESS #0	
MCP 7	02	VMDL	1	0-3	VM DELAY	
	03	SYS	2	0-3	SYSTEM	
	04	PREO	0	0-3	PRE/OVER RATIO	
	00	UPIC	63	0-63	USER PICTURE(VIVID)	
			44	0-63	USER PICTURE(STANDARD)	
			40	0-63	USER PICTURE(MOVIE)	
			38	0-63	USER PICTURE(GAME)	
			38	0-63	USER PICTURE(PRO)	
	01	UBRT	28	0-63	USER BRIGHTNESS(VIVID)	
			31	0-63	USER BRIGHTNESS(STANDARD)	
			31	0-63	USER BRIGHTNESS(MOVIE)	
			27	0-63	USER BRIGHTNESS(GAME)	
	02	UCOL	31	0-63	USER BRIGHTNESS(PRO)	
			34	0-63	USER COLOR(VIVID)	
			31	0-63	USER COLOR(STANDARD)	
			31	0-63	USER COLOR(MOVIE)	
	03	USHP	31	0-63	USER COLOR(GAME)	
			31	0-63	USER COLOR(PRO)	
			50	0-63	USER SHARPNESS(VIVID)	
			36	0-63	USER SHARPNESS(STANDARD)	
			33	0-63	USER SHARPNESS(MOVIE)	
			36	0-63	USER SHARPNESS(GAME)	
			36	0-63	USER SHARPNESS(PRO)	

SCD (Sub Chroma Decoder)

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
SCD 1 (TV)	00	SCON	6	0-15	SUB CONTRAST(TV)	CXA2019AQ
	01	SHUE	6	0-15	SUB HUE(TV)	
	02	SCOL	6	0-15	SUB COLOR(TV)	
SCD 2 (VIDEO)	00	SCON	6	0-15	SUB CONTRAST(VIDEO)	
	01	SHUE	6	0-15	SUB HUE(VIDEO)	
	02	SCOL	6	0-15	SUB COLOR(VIDEO)	
SCD 3	00	MYDR	3	0-31	YDRIVE	
	01	Y2DR	31	0-31	Y2 DRIVE	
	02	U2DR	15	0-31	U2 DRIVE	
	03	V2DR	15	0-31	V2 DRIVE	
	04	MUPE	7	0-15	U PED	
	05	MVPE	7	0-15	V PED	
	06	U2PE	7	0-15	U2 PED	
	07	V2PE	7	0-15	V2 PED	
	08	DPIC	1	0,1	D PIC	
	09	DCTR	0	0-7	DC TRAN	

3DCM (3D Comb Filter)

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
3DCM 1 (YCS)	00	NRMD	0	0-3	NRMD	UPD64081
	01	DYCO	2	0,1	DYCOR	
	02	DYGA	11	0-15	DYGAIN	
	03	DCCO	1	0,1	DCCOR	
	04	DCGA	12	0-15	DCGAIN	
	05	SELD	1	0,1	SELD	
3DCM 2 (YCNR)	06	D2GA	4	0-7	D2GAIN	
	00	NRMD	3	0-3	NRMD	
	01	DYCO	2	0,1	DYCOR	
	02	DYGA	11	0-15	DYGAIN	
	03	DCCO	1	0,1	DCCOR	
	04	DCGA	12	0-15	DCGAIN	
3DCM 3 (TV)	05	SELD	1	0,1	SELD	
	06	D2GA	4	0-7	D2GAIN	
	00	WSC	0	0-3	WSC	
	01	VTRH	1	0-3	VTRH	
	02	VTRR	1	0-3	VTRR	
	03	LDSR	3	0-3	LDSR	
	04	YPFT	3	0-3	YPFT(TV:NR OFF)	
	05	YPFG	12	0-15	YPFG(TV:NR OFF)	
	06	YPFC	0	0,1	YPFT CORING(TV:NR OFF)	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	04	UTRI	2	0-3	USER TRINITONE(VIVID)	
			1	0-3	USER TRINITONE(STANDARD)	
			0	0-3	USER TRINITONE(MOVIE)	
			2	0-3	USER TRINITONE(GAME)	
			1	0-3	USER TRINITONE(PRO)	
	05	UNR	0	0-3	USER NR MODE(VIVID)	
			0	0-3	USER NR MODE(STANDARD)	
			0	0-3	USER NR MODE(MOVIE)	
			0	0-3	USER NR MODE(GAME)	
			0	0-3	USER NR MODE(PRO)	
	06	UDPI	1	0,1	USER DYNAMIC PICTURE(VIVID)	
			1	0,1	USER DYNAMIC PICTURE(STANDARD)	
			0	0,1	USER DYNAMIC PICTURE(MOVIE)	
			0	0,1	USER DYNAMIC PICTURE(GAME)	
			1	0,1	USER DYNAMIC PICTURE(PRO)	
	07	UVML	3	0-3	USER VM LEVEL(VIVID)	
			2	0-3	USER VM LEVEL(STANDARD)	
			1	0-3	USER VM LEVEL(MOVIE)	
			3	0-3	USER VM LEVEL(GAME)	
			1	0-3	USER VM LEVEL(PRO)	

MCD (Main Chroma Decoder)

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MCD 1 (DRC-TV)	00	SCON	5	0-15	SUB CONTRAST	CXA2019AQ
	01	SHUE	6	0-15	SUB HUE	
	02	SCOL	4	0-15	SUB COLOR	
MCD 2 (P&P-TV)	00	SCON	5	0-15	SUB CONTRAST	
	01	SHUE	6	0-15	SUB HUE	
MCD 3 (DRC-VIDEO)	02	SCOL	5	0-15	SUB COLOR	
	00	SCON	5	0-15	SUB CONTRAST	
	01	SHUE	8	0-15	SUB HUE	
MCD 4 (P&P-VIDEO)	02	SCOL	7	0-15	SUB COLOR	
	00	SCON	5	0-15	SUB CONTRAST	
MCD 5	01	SHUE	7	0-15	SUB HUE	
	02	SCOL	7	0-15	SUB COLOR	
	00	MYDR	3	0-31	YDRIVE	
	01	Y2DR	31	0-31	Y2 DRIVE	
	02	U2DR	15	0-31	U2 DRIVE	
	03	V2DR	15	0-31	V2 DRIVE	
	04	MUPE	7	0-15	U PED	
	05	MVPE	7	0-15	V PED	
	06	U2PE	7	0-15	U2 PED	
	07	V2PE	7	0-15	V2 PED	
	08	DPIC	1	0,1	D PIC	
	09	DCTR	0	0-7	DC TRAN	

SNNR (Signal Noise and Noise Reduction)

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
SNNR1	00	SSHP	3	0-3	MCP SUB SHARPNESS	
	01	LTIL	0	0-3	MCP LTI	
	02	YPFT	3	0-3	3DCM YPFT	
	03	YPFG	10	0-15	3DCM YPFG	
	04	YPFC	0	0,1	3DCM YPFC	
SNNR2	05	WSLT	15	0-255	3DCM WSL THRESHOLD	
	00	SSHP	3	0-3	MCP SUB SHARPNESS	
	01	LTIL	0	0-3	MCP LTI	
	02	YPFT	3	0-3	3DCM YPFT	
	03	YPFG	9	0-15	3DCM YPFG	
SNNR3	04	YPFC	0	0,1	3DCM YPFC	
	05	WSLT	79	0-255	3DCM WSL THRESHOLD	
	00	SSHP	3	0-3	MCP SUB SHARPNESS	
	01	LTIL	0	0-3	MCP LTI	
	02	YPFT	1	0-3	4DCM YPFT	
SNNR4	03	YPFG	7	0-15	4DCM YPFG	
	04	YPFC	1	0,1	4DCM YPFC	
	05	WSLT	175	0-255	4DCM WSL THRESHOLD	
	00	SSHP	2	0-3	MCP SUB SHARPNESS	
	01	LTIL	0	0-3	MCP LTI	
	02	YPFT	1	0-3	4DCM YPFT	
	03	YPFG	5	0-15	4DCM YPFG	
	04	YPFC	1	0,1	4DCM YPFC	

OSD (On Screen Display)

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
OSD	00	FREQ	95	0-255	OSD FREQ	MB90091 & OSD U-COM
	01	HPOS	26	0-255	H POSITION	
	02	VPOS	30	0-255	V POSITION	

MCCD (Main Closed Caption Decoder)

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MCCD	00	CRIL	2	0-15	CRI COUNT LOW	MAIN U-COM
	01	CFLD	5	0-15	CAPTION FIXED-FIELD COUNT	
	02	CCDI	3	0-7	CCD INT	
	03	CRIP	4	0-7	CRI & PARITY	
	04	CRIT	0	0-3	CRI TIME CONSTANT(MASK=1,OTP=2)	
	05	CSB1	3	0-3	SYNC SLICE BIAS 1	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
3DCM 4 (VIDEO)	00	WSC	0	0-3	WSC	
	01	VTRH	1	0-3	VTRH	
	02	VTRR	1	0-3	VTRR	
	03	LDSR	1	0-3	LDSR	
	04	YPFT	3	0-3	YPFT(VIDEO:NR OFF)	
	05	YPFG	12	0-15	YPFG(VIDEO:NR OFF)	
3DCM 5	06	YPFC	1	0,1	YPFCORING(VIDEO:NR OFF)	
	00	MSS	0	0-3	MSS	
	01	YNKI	2	0-3	YNRK & YNRIV	
	02	YNRL	0	0-3	YNRLIM	
	03	CNK1	2	0-3	CNRK & CNRINV	
	04	CNRL	0	0-3	CNRLIM	
	05	VIPS	2	0-3	VIPS	
	06	VEGS	1	0-3	VEGS	
	07	CC3N	0	0,1	CC3N	
	08	HDP	4	0-7	HDP	
	09	CDL	3	0-7	CDL	
	10	HSSL	12	0-15	HSSL	
	11	VSSL	3	0-15	VSSL	
	12	HPLF	1	0,1	HPLLFS	
	13	BPLF	1	0,1	BPLLFS	
	14	FSCF	0	0,1	FSCFG	
	15	EXAD	1	0,1	ADIN	
	16	WSLT	2	3	WSL THRESHHOLD	

MID (Multi Image Driver)

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MID	00	DLYC	3	0-7	DELAY(Y OUTPUT DELAY)	CXD2090 & MID U-COM
	01	YSDY	1	0-7	YSDY('S DELAY)	
	02	VJTC	0	0-3	VJITTC(V JITTER MODE)	
	03	HPHA	43	0-255	HPHASA(ACH H PHASE)	
	04	VPHA	11	0-255	VPHASA(ACH V PHASE)	
	05	DLYA	4	0-7	DELAYA(ACH Y DELAY)	
	06	HPOA	87	0-255	HPOSIA(ACH H POSITION;NOT USE)	
	07	VPOA	64	0-255	VPOSIA(ACH V POSITION;NOT USE)	
	08	HPHB	43	0-255	HPHASB(BCH H PHASE)	
	09	VPHB	11	0-255	VPHAHB(BCH V PHASE)	
	10	DLYB	4	0-7	DELAYB(BCH Y DELAY)	
	11	HPOB	4	0-15	HPOSB(BCH H POSITION;PIP ONLY)	
	12	VPOB	6	0-15	VPOSB(BCH V POSITION;PIP ONLY)	
	13	BDPY	0	0-15	BPDELAY(BP DELAY)	
	14	ADSW	1	0,1	A/BCH ADC INT/EXT(EXT=1)	
	15	OSDH	25	0-63	OSD H POSITION	
	16	OSDV	7	0-63	OSD V POSITION	
17	WCOL	2	0-3	WKCAWKCBA(BCH WINDOW COLOR)		

OP (Option)

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
OP	00	AGCA	167	0-255	AGC ATT LEVEL	MAIN U-COM
	01	16.9	0	0,1	16.9 ON/OFF (ON = 1)	
	02	DRC P	0	0,1	DRC INTERLACE/PROGRESSIVE	
	03	1080	0	0,1	FORCED 1080i(VIDEO5)	
	04	ID XT	2	0-15	INDEX CH SCAN TIME	

PJE (Projection TV Engine)

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
P/E	00	FDIS	00	0, 1	FINE ADJUST DISPLAY ON(ON=1, OFF=0)	CM006AF & PIED U-COM
	01	OSDH	32	0-255	PIED OSD H POSITION	
	02	OSDV	55	0-255	PIED OSD V POSITION	
	03	FVST	51(00)	0-255	FINE V START LINE	
	04	V1ST	00	0-255	V1 START	
	05	V1CU	31(29)	0-255	V1 COUNT UP	
	06	COHP	00	0-255	COARSE H PHASE	
	07	FHPH	206(205)	0-255	FINE H PHASE	
08	TPHP	49(55)	0-255	TEST PATTERN H PHASE		

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	06	CSB2	4	0-7	SYNC SLICE BIAS 2	
	07	CREP	142	0-255	CRI SIGNAL END POSITION	
	08	CDSD	8	0-31	DATA START DELAY	
	09	CCDS	9	0-31	CAPTION DATA THRESHOLD	
	10	CHMK	42	0-63	P8 HMASK	
	11	CHSY	136	0-255	P8 HSYNC	
	12	CCDH	27	0-63	CCD H POSITION	

APLR (Audio Processor Left and Right)

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
APLR	00	SVOL	0	0-15	SUB VOLUME	TDA7312
	01	ATTL	0	0-15	ATT LCH	
	02	ATTR	0	0-15	ATT RCH	
	03	SBAS	7	0-15	SUB BASS	
	04	STRE	7	0-15	SUB TREBLE	

APCS(Audio Processor Center and Surround)

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
APLR	00	SVOL	0	0-15	SUB VOLUME	TDA7312
	01	ATTC	0	0-15	ATT CCH	
	02	ATTS	0	0-15	ATT SCH	
	03	SBAS	7	0-15	SUB BASS	
	04	STRE	7	0-15	SUB TREBLE	

[J: 480I&480P(720P) F/N () : 1080I < > 16:9

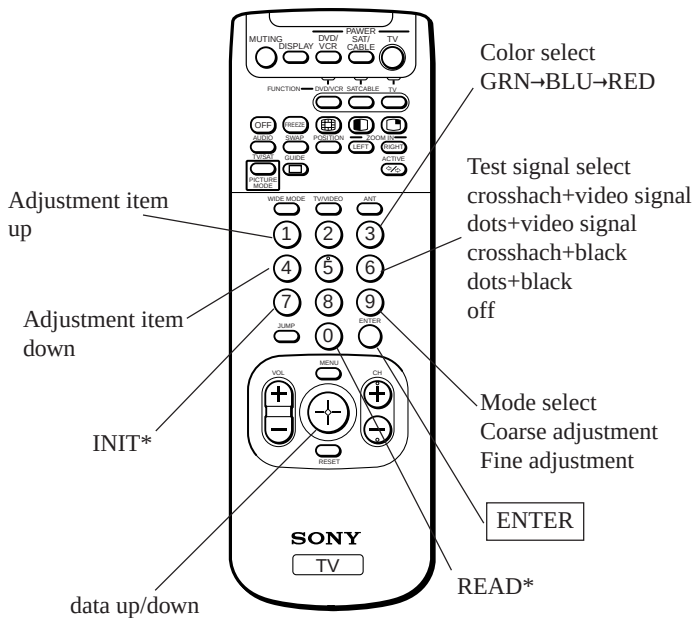
Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	13	PWM2	27(26)<25>	0-255	PWM2	
	14	HBLD	222(217)	0-255	HBLKOUT H DELAY	
	15	HBLW	00(10)<10>	0-63	HBLKOUT PULSE WIDTH	
	16	BLKP	44(75)<49>	0-255	V BLANKING PULSE	
	17	COGV	00	-127-+127	GV CENTER OFFSET OF AUTO REGI	
	18	CORV	00	-127-+127	RV CENTER OFFSET OF AUTO REGI	
	19	COBV	00	-127-+127	BV CENTER OFFSET OF AUTO REGI	
	20	COGH	00	-127-+127	GH CENTER OFFSET OF AUTO REGI	
	21	CORH	00	-127-+127	RH CENTER OFFSET OF AUTO REGI	
	22	COBH	00	-127-+127	BH CENTER OFFSET OF AUTO REGI	
	23	SOGV	00	-127-+127	GV SKEW OFFSET OF AUTO REGI	
	24	SORV	00	-127-+127	RV SKEW OFFSET OF AUTO REGI	
	25	SOBV	00	-127-+127	BV SKEW OFFSET OF AUTO REGI	
	26	SOGH	00	-127-+127	GH SKEW OFFSET OF AUTO REGI	
GRN	27	SORH	00	-127-+127	RH SKEW OFFSET OF AUTO REGI	
	28	SOBH	00	-127-+127	BH SKEW OFFSET OF AUTO REGI	
	29	ERR	00		AUTO REGI ERROR CODE	
	30	ADTM	144	0-255	AUTO REGI AD TIMING	
	31	VUP	01/10/28/01*	0-255	AUTO REGI VUP POS	
	32	VMID	113/114/113/120*	0-255	AUTO REGI VMID POS	
	33	VLOW	236/221/196/240*	0-255	AUTO REGI VLOW POS	
	34	HPR	01	0-255	AUTO REGI H POS REGIS	
		CENT	000 / 000	-512 - +511	COARSE GREEN H/V CENT	
		SKEW	000 / 000	-512 - +511	COARSE GREEN H/V SKEW	
		SIZE	000 / 000	-512 - +511	COARSE GREEN H/V SIZE	
		LIN	XXXX / XXXX	-	COARSE GREEN H/V LIN	
BLU		KEY	XXXX / XXXX	-	COARSE GREEN H/V KEY	
		PIN	XXXX / 000	-512 - +511	COARSE GREEN H/V PIN	
		CENT	000 / 000	-512 - +511	COARSE BLUE H/V CENT	
		SKEW	000 / 000	-512 - +511	COARSE BLUE H/V SKEW	
		SIZE	000 / 000	-512 - +511	COARSE BLUE H/V SIZE	
		LIN	000 / XXXX	-512 - +511	COARSE BLUE H/V LIN	
		KEY	XXXX / 000	-512 - +511	COARSE BLUE H/V KEY	
		PIN	XXXX / 000	-512 - +511	COARSE BLUE H/V PIN	

*: in order for mode, 480I&480P F/N/480I&480P WZ/480I&480P Z/1080I

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	RED	CENT	000 / 000	-512 - +511	COARSE RED H/V CENT	
		SKEW	000 / 000	-512 - +511	COARSE RED H/V SKEW	
		SIZE	000 / 000	-512 - +511	COARSE RED H/V SIZE	
		LIN	000 / XXXX	-512 - +511	COARSE RED H/V LIN	
		KEY	XXXX / 000	-512 - +511	COARSE RED H/V KEY	
		PIN	XXXX / 000	-512 - +511	COARSE RED H/V PIN	

3-10. REGISTRATION ADJUSTMENT (PJE)

• FUNCTION OF BUTTONS OF REMOTE COMMANDER FOR PJE MODE.



INIT*: Press 7, "INIT" green letters appear on the screen.

Then press ENTER, all the PJE data are reset.

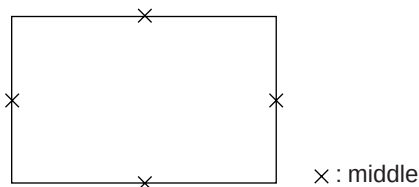
READ*: Press 0, "READ" green letters appear on the screen.

Then press ENTER, all the PJE default data are restored.

Note : Internal patterns are used for geometry and convergence adjustments. However, sizing and centering must be done with the use of an external generator. The recommended pattern would be a monoscope, or equivalent pattern, which would provide the means to adjust both the linearity and sizing of the picture.

[SETUP FOR ADJUSTMENT]

- Current flow in circuit should be stable before attempting adjustment. So wait 5 minutes after turning on the TV power.
- At the 4 insides of the screen, locate the middle. Use a tape measure to identify the middle.
- Connect the pattern generator and feed the signal easy to judge the center of picture. Make the center of picture to the mechanical center



- Separate adjustments are required for multiple modes and should be done in the following order (as each mode requires a

separate adjustment):

- FULL (NORMAL) mode
- WIDE ZOOM mode
- ZOOM mode
- 1080i (Video 5 input mode)

In all these modes, both color convergence and geometry adjustments are required.

- In order to do the 1080i (Video 5) mode adjustment, you must follow this procedure:

VIDEO 5 forced 1080i mode setting:

Set OP 03 1080 to 001 in the service mode.

1. Set to the service mode by pressing quickly keys on the remote commander in the standby mode in the following order:
[DISPLAY] → [5] → [VOL+] → [TV POWER]
2. Change TV mode to the video input mode.
3. Change the VDSP mode to the PJE 00 FDIS.

PJE	00	00
FDIS	I	

4. Set FDIS data to "01" to display the registration data of each spot in the fine adjustment.

PJE	00	01
FDIS	I	

5. Press **[6]** to display the test signal (crosshatch) on the screen.
6. Select GRN CENT(*) with the **[1]** and **[4]** keys on the remote commander and check that the adjustment data is now "000" both vertically and horizontally.

	(H)	(V)
GRN	000	000
CENT		

- *: In the factory preset, "GRN CENT" appears on the screen first. In case of other colors "RED" or "BLU", change color by every pressing **[3]** key.

7. Cover the both red and blue picture lenses with the lens caps to

SUB DEFLECTION ADJUSTMENT ITEM

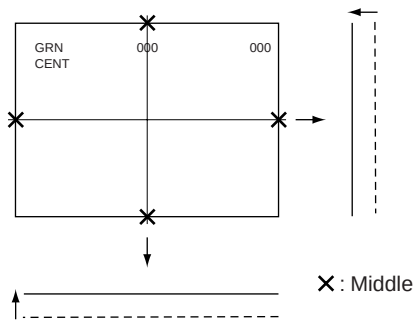
Adjustment O : Yes - : No

Display	Adjustment item	Adjustment type		
		G	R	B
		H/V	H/V	H/V
CENT	CENT	O/O	O/O	O/O
SKEW	SKEW	O/O	O/O	O/O
SIZE	SIZE	O/O	O/O	O/O
LIN	LIN	-/-	O/-	O/-
KEY	KEY	-/-	-/O	-/O
PIN	PIN	-/O	-/O	-/O

[GREEN REGISTRATION ADJUSTMENT]

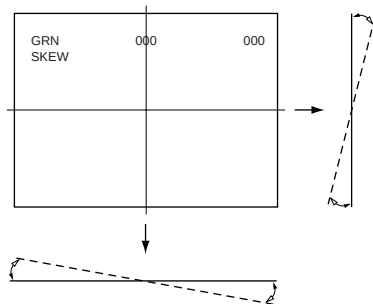
<GREEN CENTER, SIZE>

1. Select GRN CENT or GRN SIZE with the **[1]** and **[4]** keys on the remote commander.
2. Adjust the center of crosshatch line goes the middle vertically and horizontally (GRN CENT) and set the size correctly (GRN SIZE) with the joystick on the remote commander.



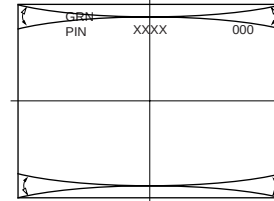
<GREEN SKEW>

1. Select GRN SKEW with the **[1]** and **[4]** keys on the remote commander.
2. Adjust the crosshatch line goes straight vertically and horizontally with the joystick on the remote commander.



<GREEN PINCUSHION>

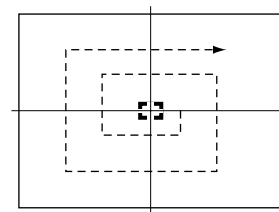
1. Select GRN PIN with the **[1]** and **[4]** keys on the remote commander.
2. Adjust the crosshatch line goes straight horizontally with the joystick on the remote commander.



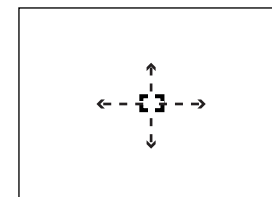
Note : These are required when either severe miss-adjustment or data loss occurred.

<FINE ADJUSTMENT>

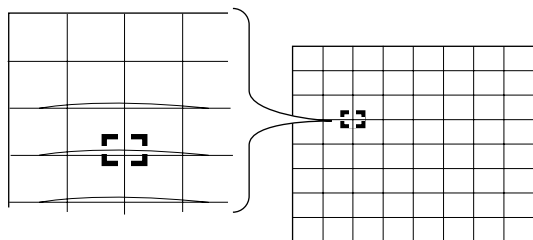
1. Press **[9]** key on the remote commander to shift to the fine adjustment mode.
The green cursor (in the GRN mode) appears on the center of the screen.
2. Use the **[1]** and **[4]** keys or the joystick on the remote commander, move the cursor (see below) everywhere you want to adjust and adjust with the joystic keys on the remote commander.
Marker movement by the **[1]** and **[4]** keys:



Press once the joystick the cursor turns green to white.
Then you can move the cursor up and down left and right every where you want.



Press once again the joystick the cursor stops and returns green, you can adjust around the cursor.



3. Press **[9]** key on the remote commander to shift to the coarse adjustment mode.

[RED REGISTRATION ADJUSTMENT]

<RED CENTER, SKEW>

1. Cover the blue picture lens with the lens cap to show the green and red colors.
2. Press **[3]** key on the remote commander to shift the GRN mode to the RED mode.
3. Select RED CENT or RED SKEW with the **[1]** and **[4]** keys on the remote commander and adjust while tracking each other alternately.
4. Adjust the red crosshatch lines go straight vertically and horizontally and overlaps the green lines with the joystick on the remote commander.

<RED SIZE, LINEARITY>

1. Select RED SIZE (vertically and horizontally) or RED LIN (vertically) with the **[1]** and **[4]** keys on the remote commander and adjust while tracking each other alternately.
2. Adjust the red crosshatch lines go straight vertically and horizontally and overlaps the green lines with the joystick on the remote commander.

<RED KEY, PINCUSHION>

1. Select RED KEY or PINCUSHION with the **[1]** and **[4]** keys on the remote commander and adjust while tracking each other alternately.
2. Adjust the red crosshatch lines go straight horizontally and overlaps the green lines with the joystick on the remote commander.

<FINE ADJUSTMENT>

1. Press **[9]** key on the remote commander to shift to the fine adjustment mode.
The red cursor (in the RED mode) appears on the center of the screen.
2. Use the **[1]** and **[4]** keys or the joystick on the remote commander, move the cursor everywhere you want to adjust and adjust with the joystick on the remote commander.

[BLUE REGISTRATION ADJUSTMENT]

1. Remove the lens cap from the blue picture lens to show full color.
2. Press **[3]** key on the remote commander to shift the RED mode to the BLU mode.
3. Adjust BLU CENT, BLU SKEW, BLU SIZE, BLU LIN, BLU KEY and BLU PIN in the same procedure of the red registration adjustment.

[FINAL CHECK]

1. Store the new adjustment (offset) value on the remote control by pressing **[MUTING]** and **[ENTER]**.
2. Press the FLASH FOCUS button on the front panel.
(The Offset value is now automatically stored.)
3. Check that no error message appears.
If an error message appears, recheck.

Note : In case of replacing CRTs, adjust the set-up adjustments (items 3-1 to 3-8) and the registration adjustment (item 3-10).
In case of replacing two or three CRTs at the same time, replace and adjust one by one.

3-11. AUTO REGISTRATION ERROR CODE LIST

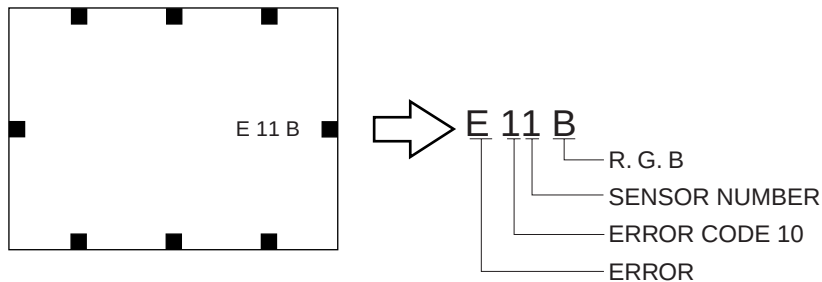
If an error code is displayed after the set has been fully adjusted, correctly, please check the following items: position, tilt and sizing. If either of these adjustments are off, even slightly, the auto-registration pattern will not hit the four sensors properly. This occurs when the internal generator patterns is being flashed on the screen for the sensors to read. Therefore, auto registration (called auto-focus) cannot operate properly causing an error code to be displayed. In order for this function to operate properly, correct position, tilt and size must be adjusted properly.

[ERROR CODE LIST]

ERROR CODE	DISCRIPTION	NOTE
00	No Error	
10	Sensor Output Level Low	* Check wiring, beam position, sensor. 0 : Upper Center 4 : Upper Left 1 : Middle Left 5 : Upper Right 2 : Middle Right 6 : Lower Left 3 : Lower Center 7 : Lower Right
20	Sensor Output Level High	* Check OP-amp circuit. 0 : Upper Center 4 : Upper Left 1 : Middle Left 5 : Upper Right 2 : Middle Right 6 : Lower Left 3 : Lower Center 7 : Lower Right
30	Adjustment Loop Counter Overflow	* Check the registering information on the convergence board.
40	Regi Data Overflow	* Check the convergence yoke driver ICs.
50	Regi Data Overflow	
60	Offset Overflow	* Convergence patterns displayed are out of normal range.
70	Offset Overflow	

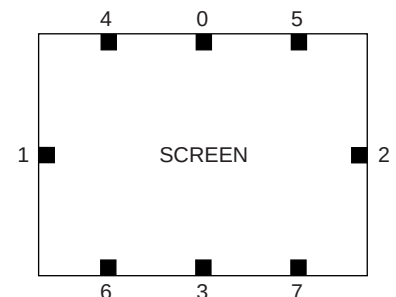
* In case of multiple error, last error is displayed.

• ERROR CODE SCREEN DISPLAY



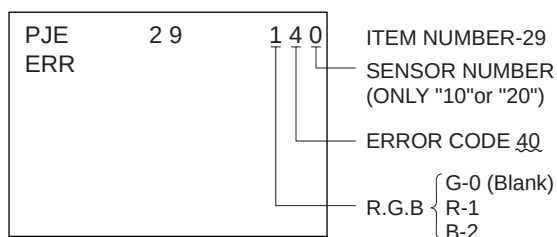
* Error code will be displayed on center of screen for 3 seconds.

[SENSOR POSITION]



- 0 : UPPER SENSOR
- 1 : LEFT SENSOR
- 2 : RIGHT SENSOR
- 3 : LOWER SENSOR
- 4 : UL SENSOR
- 5 : UR SENSOR
- 6 : LL SENSOR
- 7 : LR SENSOR

• ERROR CODE DISPLAY IN REGI SERVICE MODE



SECTION 4

SAFETY RELATED ADJUSTMENTS

[D BOARD]

4-1. HV REGULATION CIRCUIT CHECK AND ADJUSTMENT

When replacing the following components marked with $\blacksquare$ on the schematic diagram always check HV regulation, and if necessary re-adjust.

- $\blacksquare$: R8196, R8232
- $\blacksquare$: C8018, C8064, C8066, C8074, C8082
D8042
IC8002, IC8007, IC8008
Q8022
R8093, R8095, R8096, R8105, R8108
R8112, R8113, R8114, R8128, R8136,
R8138, R8139, R8154, R8157, R8168,
R8173, R8174, R8177, R8178, R8195,
R8196, R8232
T8002 (LOT), T8003 (FBT)
HV BLOCK, D BOARD

OPERATION CHECK

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Connect a 33k Ω variable resistor, set to maximum value, across CN8008.
3. Power on the set.
4. Receive dot signal pattern.
5. Gradually lower the value of the variable resistor and check that the hold-down circuit operates at a static voltmeter reading of $31.0 \pm 0.5\text{kV}$ dc when the raster disappears.

HV REGULATION ADJUSTMENT

1. REPART STEPS ① ~ ⑤ as above.
2. Just at the point hold-down circuit begins to operate switch off the set.
3. Remove the VR connected across CN8008, and measure its resistance.
4. Solder a resistor value, nearest to the measured value, across CN8008.
5. Reconfirm operation check.

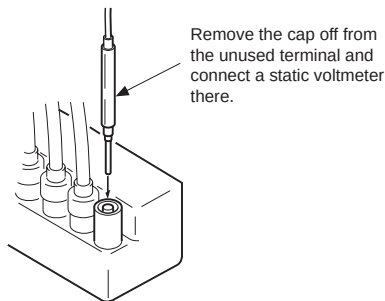


Fig. 4-1

4-2. HV HOLD DOWN CIRCUIT OPERATION CHECK AND ADJUSTMENT

When replacing the following components marked with $\blacksquare$ on the schematic diagram always check hold-down voltage and if necessary re-adjust.

- $\blacksquare$: R8194, R8231
- $\blacksquare$: C8018, D8026, D8032, D8035, D8050
IC8006, IC8009, IC8010
Q8021, Q8031
R8092, R8094, R8097, R8109, R8110, R8115,
R8117, R8118, R8121, R8123, R8125, R8129,
R8135, R8140, R8155, R8190, R8191, R8192,
R8193, R8194, R8198, R8231
T8002 (LOT), T8003 (FBT)
HV BLOCK, D BOARD

OPERATION CHECK

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Power on the set.
3. Receive dot signal pattern.
4. Check that the HV static voltmeter is reading $34.0 \pm 0.5\text{kV}$ dc.

HV HOLD-DOWN ADJUSTMENT

1. Repart step ① as above.
2. Connect 33k Ω variable resistor, set to maximum value, to CN8007.
3. Power on the set.
4. Receive dot signal pattern.
5. Gradually lower the value of the variable resistor until the static voltmeter is reading $34.0 \pm 0.5\text{kVdc}$.
6. Switch off the set.
7. Remove the VR connected across CN8007, and measure its value.
8. Solder a resistor value, nearest to the measured value, across CN8007.
9. Reconfirm operation check.

[G BOARD]

4-3. +B MAX VOLTAGE CONFIRMATION

The following adjustments should always be performed when replacing IC6101.

1. Supply $120.0 \pm 2.0\text{VAC}$ to variable autotransformer.
2. Receive dot signal pattern and set the PICTURE and BRIGHTNESS settings to their minimum.
3. Confirm the voltage of TP +B 135V is less than 137.0Vdc.
4. If step 4 not satisfied, replace IC6101 and repeat above steps.

4-4. +B OVP CONFIRMATION

1. Connect a voltmeter to TP. OVP and ground.
2. Supply 120VAC to variable autotransformer.
3. Power on the Set.
4. Supply 150VDC to TP. OVP.
5. Check the OVP is activated.

SECTION 5

CIRCUIT ADJUSTMENTS

KP-57XBR10W/65XBR10W
RM-Y907 RM-Y907

[MCD MODE]

5-1. TV INPUT SUB CONTRAST ADJUSTMENT (MCD1-SCON)

1. Receive the color-bar signal.
2. Set to service mode.
3. Connect an oscilloscope between pin ② of CN511 (A board) and ground.
4. Select “ MCD1-SCON ”, and adjust so that the waveform level is $0.525 \pm 0.015V_{p-p}$.
5. Write the data into memory.

MUTING → **ENTER**

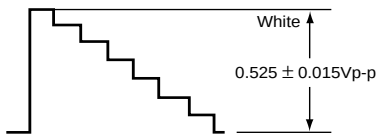


Fig. 5-1

5-3. P & P SUB CONTRAST ADJUSTMENT (MCD2-SCON)

1. Receive the signal.
TV terminal (main) : color-bar signal
VIDEO terminal (sub) : no signal
2. Set to P & P mode, set to service mode.
3. Connect an oscilloscope between pin ②⑩ of CN513 (A board) and ground.
4. Select “ MCD2-SCON ”, and adjust so that the waveform level is $0.525 \pm 0.015V_{p-p}$.
5. Write the data into memory.

MUTING → **ENTER**

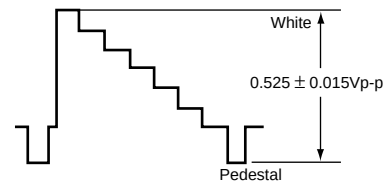


Fig. 5-3

5-2. VIDEO INPUT SUB CONTRAST ADJUSTMENT (MCD3-SCON)

1. VIDEO 1 input the color-bar signal.
2. Set to service mode.
3. Connect an oscilloscope between pin ② of CN511 (A board) and ground.
4. Select “ MCD3-SCON ”, and adjust so that the waveform level is $0.525 \pm 0.015V_{p-p}$.
5. Write the data into memory.

MUTING → **ENTER**

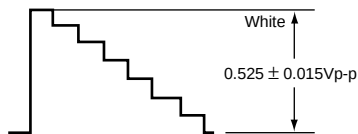


Fig. 5-2

5-4. P & P SUB CONTRAST ADJUSTMENT (MCD4-SCON)

1. Receive the signal.
TV terminal (sub) : no signal
VIDEO terminal (main) : color-bar signal
2. Set to P & P mode, and set to service mode.
3. Connect an oscilloscope between pin ②⑩ of CN513 (A board) and ground.
4. Select “ MCD4-SCON ”, and adjust so that the waveform level is $0.525 \pm 0.015V_{p-p}$.
5. Write the data into memory.

MUTING → **ENTER**

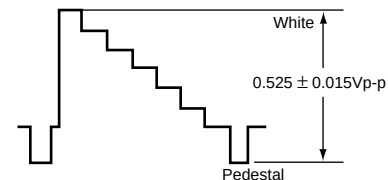


Fig. 5-4

5-5. SUB-CONTRAST ADJUSTMENT (MCP2-SCON)

1. Receive the color-bar signal.
2. VIDEO MODE : STANDARD
PICTURE : maximum
COLOR : minimum
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP2-SBRT : 25
3. Set to service mode.
4. Connect an oscilloscope between pin ③ of CN503 (A board) connector and ground.
5. Select “ MCP 2-SCON ”, and adjust so that the waveform level is $1.750 \pm 0.030\text{Vp-p}$.
6. Write the data into memory.

MUTING → ENTER

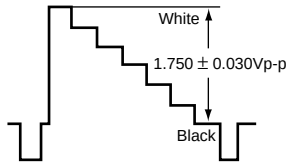


Fig. 5-5

5-6. VIDEO 5 INPUT SUB-CONTRAST ADJUSTMENT (MCP3-SCON)

1. VIDEO 5 input the color-bar signal.
2. VIDEO MODE : STANDARD
PICTURE : maximum
COLOR : minimum
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP3-SBRT : 25
3. Set to service mode.
4. Connect an oscilloscope between pin ③ of CN503 (A board) connector and ground.
5. Select “ MCP 3-SCON ”, and adjust so that the waveform level is $1.750 \pm 0.030\text{Vp-p}$.
6. Write the data into memory.

MUTING → ENTER

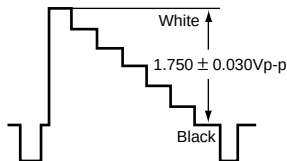


Fig. 5-6

5-7. SUB-HUE AND SUB-COLOR ADJUSTMENT (MCD1-SHUE, SCOL)

1. Receive the color-bar signal.
2. VIDEO MODE : STANDARD
PICTURE : maximum
COLOR : center
HUE : HUE
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP1-SBRT : 25
MCP1-SHUE : 7
MCP1-SCOL : 12
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “ MCD 1-SHUE, SCOL ”, and adjust them to have $VB1 = VB4$ and $VB2 = VB3$ in the waveform levels.
6. Write the data into memory.

MUTING → ENTER

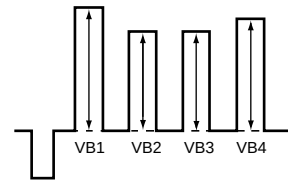


Fig. 5-7

5-8. VIDEO INPUT SUB-HUE AND SUB-COLOR ADJUSTMENT (MCD3-SHUE, SCOL)

1. VIDEO input the color-bar signal.
2. VIDEO MODE : STANDARD
PICTURE : maximum
COLOR : center
HUE : HUE
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP1-SBRT : 25
MCP1-SHUE : 7
MCP1-SCOL : 12
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “ MCD 3-SHUE, SCOL ”, and adjust them to have $VB1 = VB4$ and $VB2 = VB3$ in the waveform levels.
6. Write the data into memory.

MUTING → ENTER

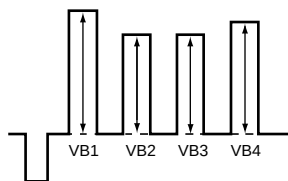


Fig. 5-8

5-9. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT (MCD2-SHUE, SCOL)

1. Receive the signal.
TV terminal (main) : color-bar signal
VIDEO terminal (sub) : no signal
2. VIDEO MODE : STANDARD
PICTURE : maximum
COLOR : center
HUE : HUE
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP1-SBRT : 25
MCP1-SHUE : 7
MCP1-SCOL : 12
3. Set to P & P mode, set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “ MCD 2-SHUE, SCOL ”, and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.

MUTING → ENTER

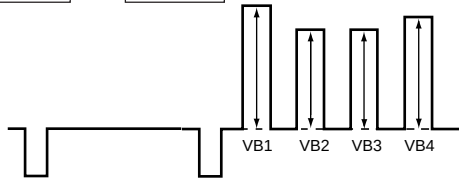


Fig. 5-9

5-10. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT (MCD4-SHUE, SCOL)

1. Receive the signal.
VIDEO terminal (main) : color-bar signal
VIDEO terminal (sub) : no signal
2. VIDEO MODE : STANDARD
PICTURE : maximum
COLOR : center
HUE : HUE
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP1-SBRT : 25
MCP1-SHUE : 7
MCP1-SCOL : 12
3. Set to P & P mode, set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “ MCD 4-SHUE, SCOL ”, and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.

MUTING → ENTER

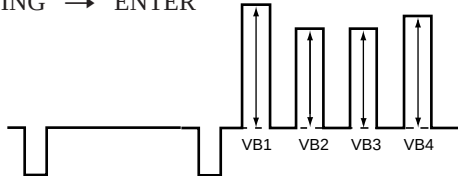


Fig. 5-10

[SCD MODE]

5-11. P & P SUB CONTRAST ADJUSTMENT (SCD1-SCON)

1. Receive the signal.
TV terminal (sub) : color-bar signal
VIDEO terminal (main) : no signal
2. Set to P & P mode, and set to service mode.
3. Connect an oscilloscope between pin ⑳ of CN513 (A board) and ground.
4. Select “ SCD1-SCON ”, and adjust so that the wave from level is $0.525 \pm 0.015V_{p-p}$.
5. Write the data into memory.

MUTING → ENTER

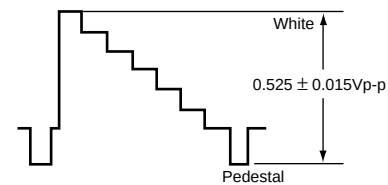


Fig. 5-11

5-12. P & P SUB CONTRAST ADJUSTMENT (SCD2-SCON)

1. Receive the signal.
TV terminal (main) : no signal
VIDEO terminal (sub) : color-bar signal
2. Set to P & P mode, and set to service mode.
3. Connect an oscilloscope between pin ⑳ of CN513 (A board) and ground.
4. Select “ SCD2-SCON ”, and adjust so that the wave from level is $0.525 \pm 0.015V_{p-p}$.
5. Write the data into memory.

MUTING → ENTER

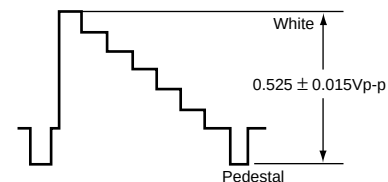


Fig. 5-12

5-13. P&P SUB-HUE AND SUB-COLOR ADJUSTMENT (SCD1-HUE, SCOL)

1. Receive the signal.
VIDEO terminal (main) : no signal
VIDEO terminal (sub) : color-bar signal
2. VIDEO MODE : STANDARD
PICTURE : maximum
COLOR : center
HUE : HUE
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP1-SBRT : 25
MCP1-SHUE : 7
MCP1-SCOL : 12
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “SCD1-SHUE, SCOL”, and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.

MUTING → ENTER

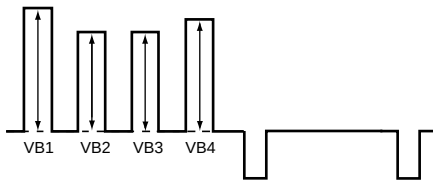


Fig. 5-11

5-14. P&P SUB-HUE AND SUB-COLOR ADJUSTMENT (SCD2-HUE, SCOL)

1. Receive the color-bar signal.
VIDEO terminal (main) : no signal
VIDEO terminal (sub) : color-bar signal
2. VIDEO MODE : STANDARD
PICTURE : maximum
COLOR : center
HUE : HUE
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP1-SBRT : 25
MCP1-SHUE : 7
MCP1-SCOL : 12
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “SCD2-HUE, SCOL”, and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.

MUTING → ENTER

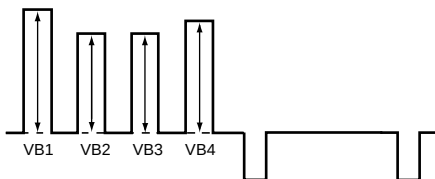


Fig. 5-12

5-15. VIDEO 5 INPUT SUB-HUE AND SUB-COLOR ADJUSTMENT (MCP3-SHUE, SCOL)

1. VIDEO 5 input the color-bar signal.
2. VIDEO MODE : STANDARD
PICTURE : maximum
COLOR : minimum
HUE : HUE
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP3-SBRT : 25
3. Set to service mode.
4. Connect an oscilloscope between pin ③ of CN503 (A board) connector and ground.
5. Select “MCP 3-SHUE, SCOL”, and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.
MUTING → ENTER

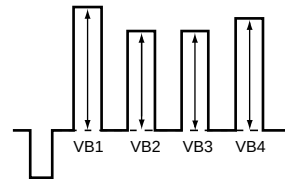
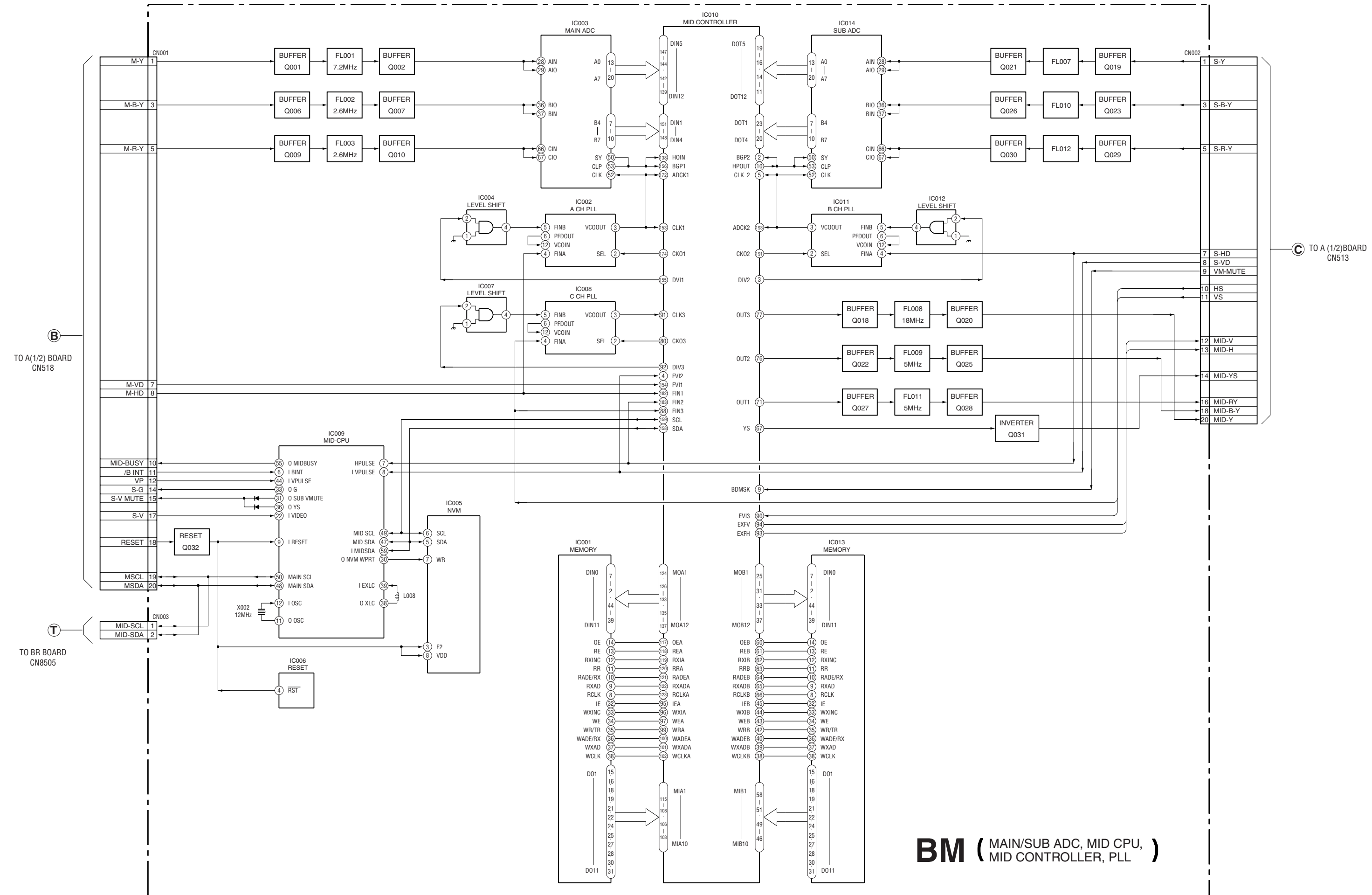


Fig. 5-15

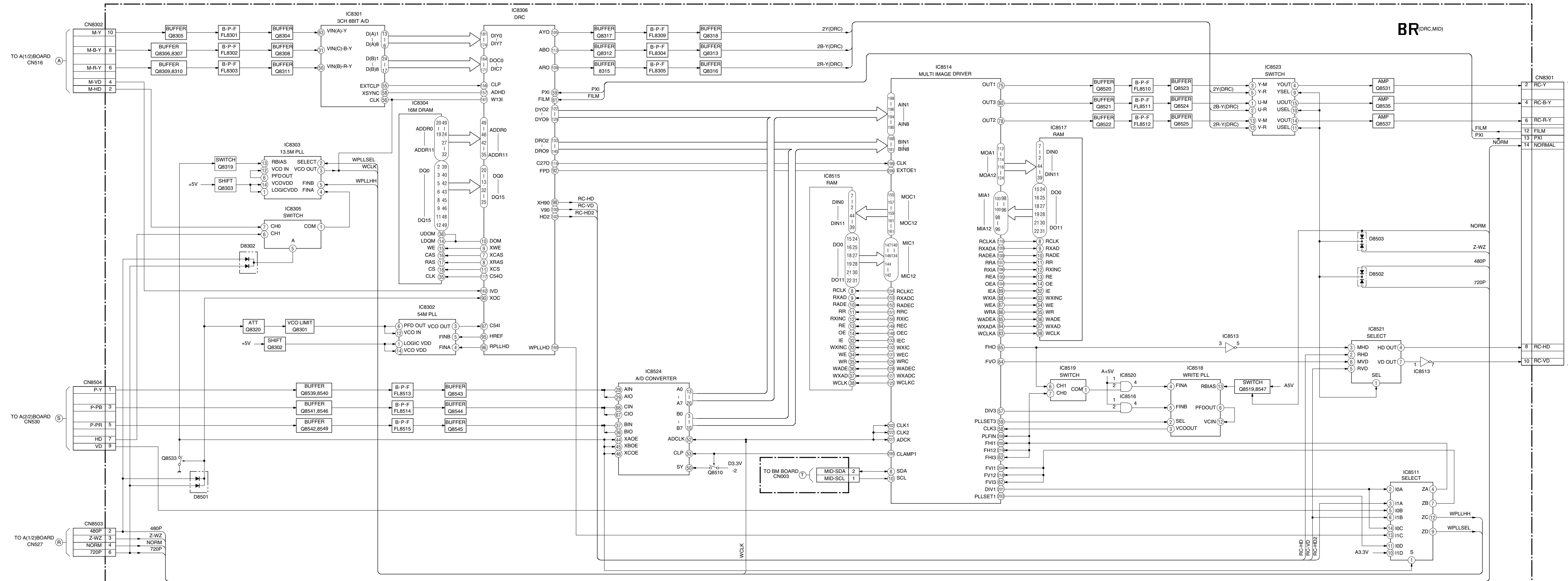
6-1. BLOCK DIAGRAM (1)



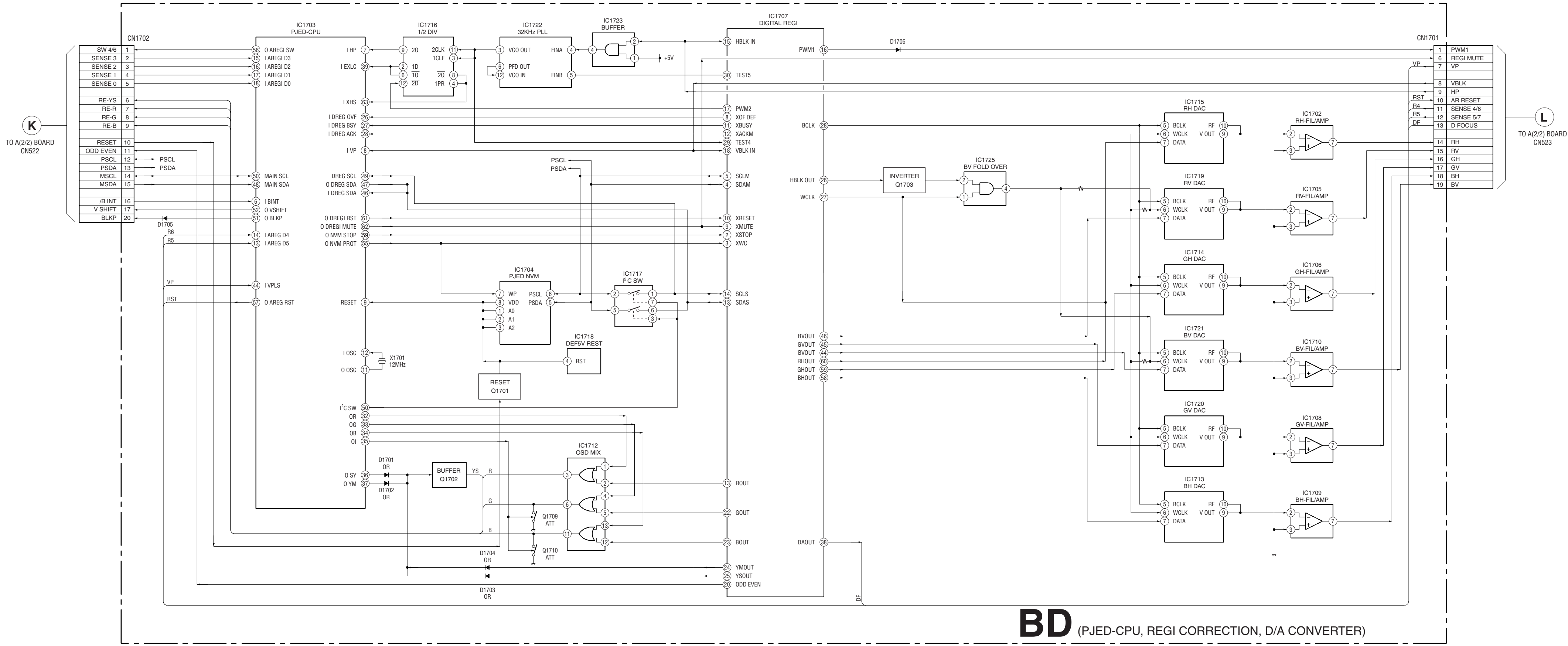
BLOCK DIAGRAM (3)



BLOCK DIAGRAM (4)

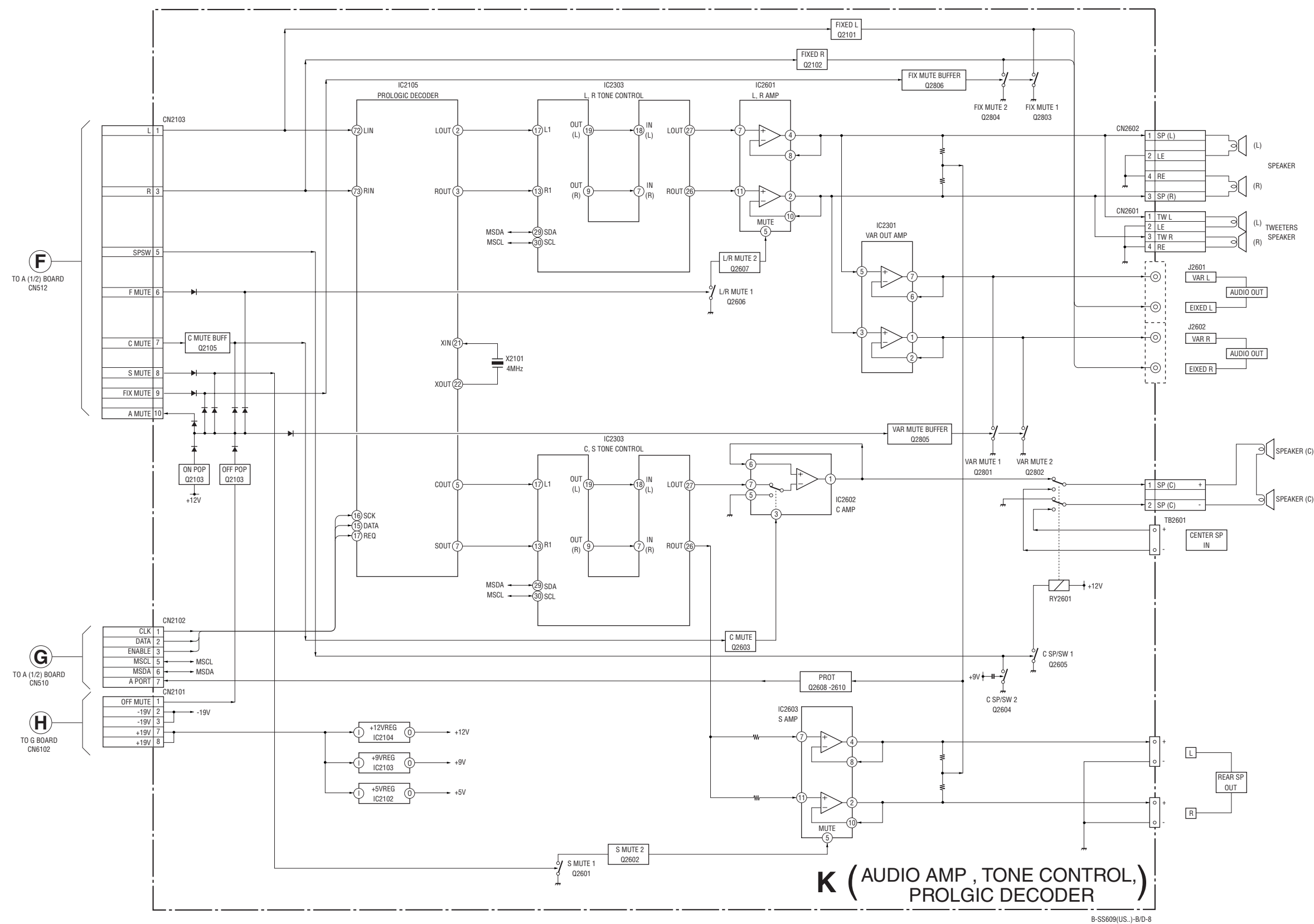


BLOCK DIAGRAM (5)

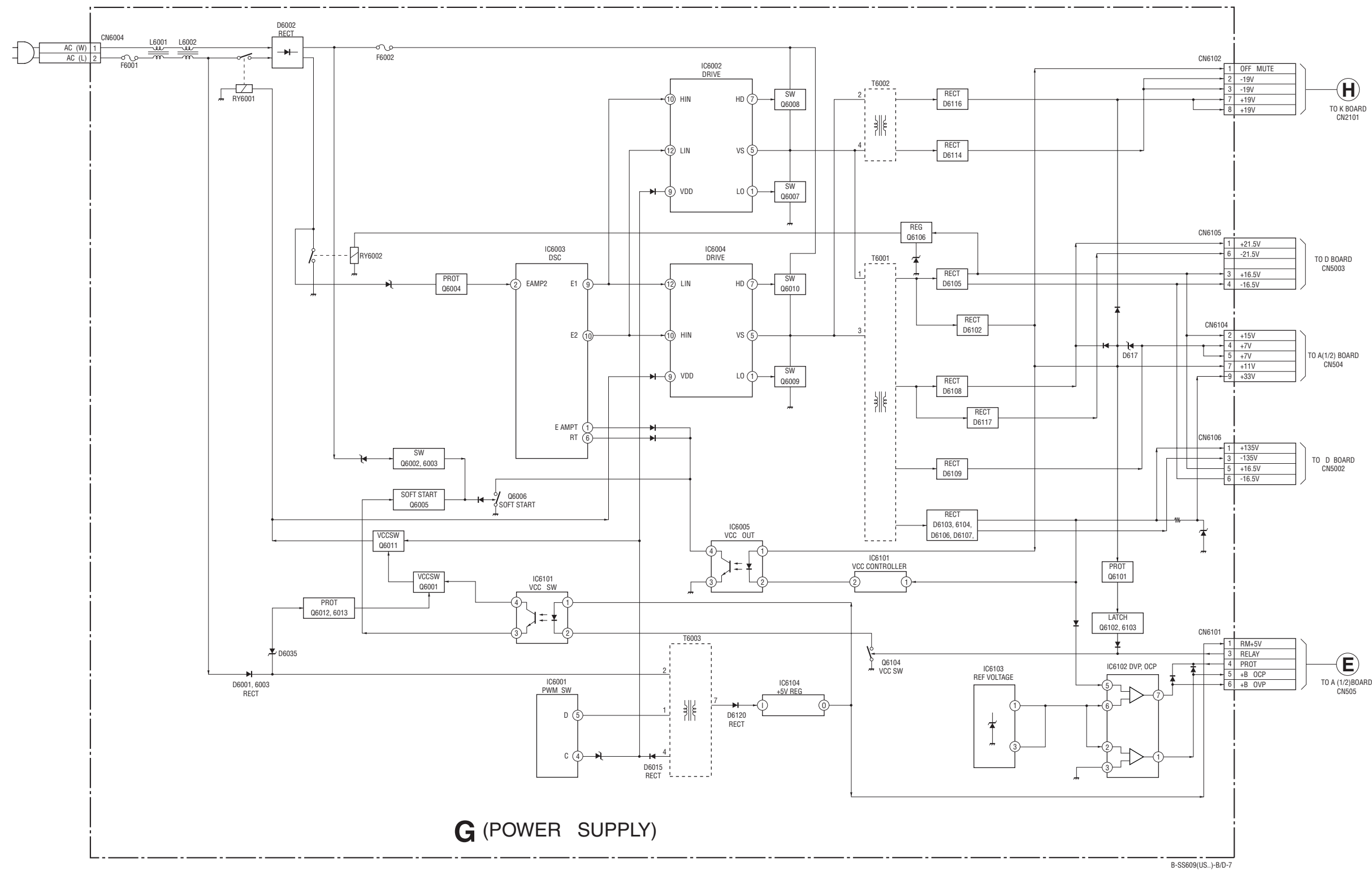


[illegible]

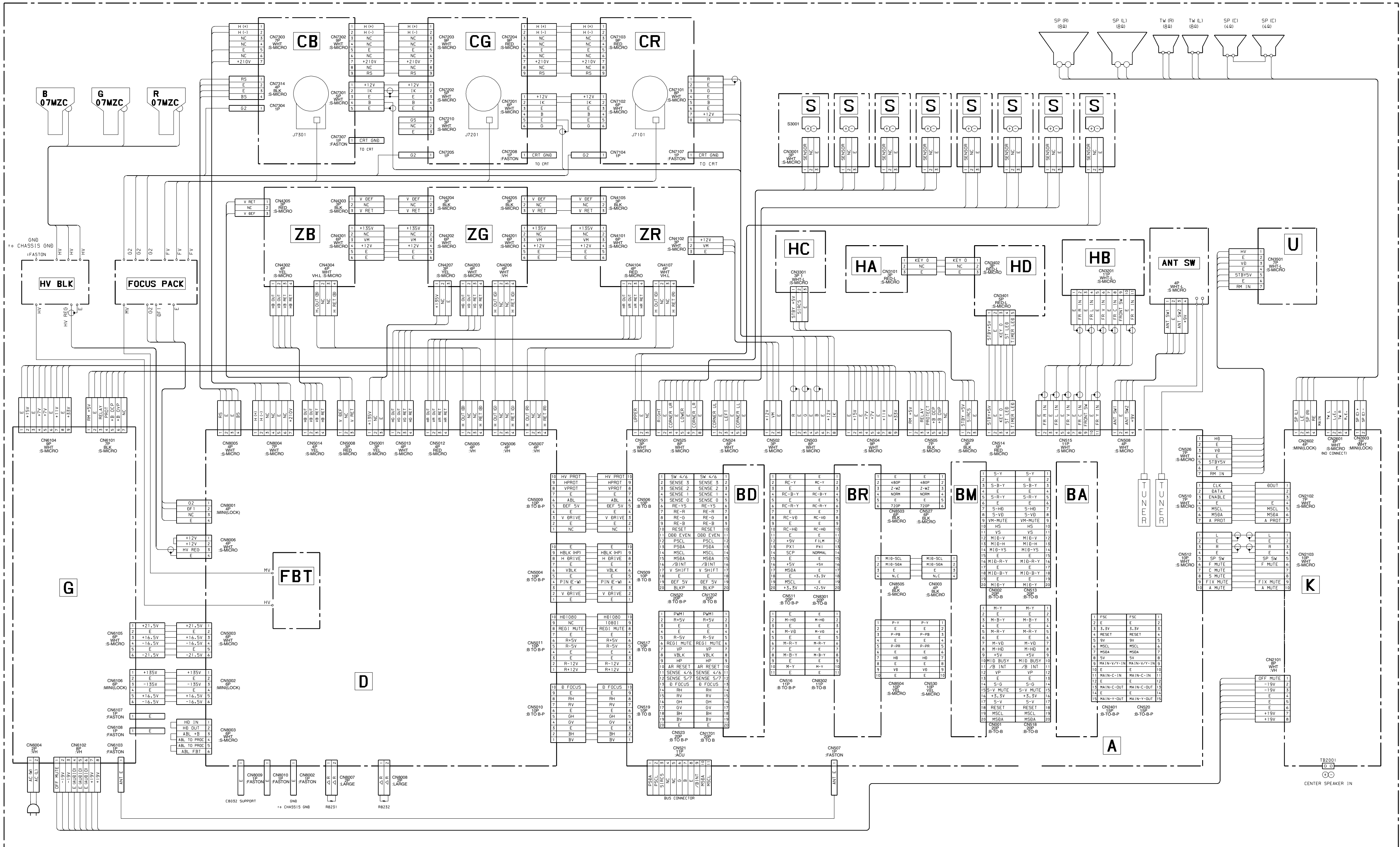
BLOCK DIAGRAM (7)



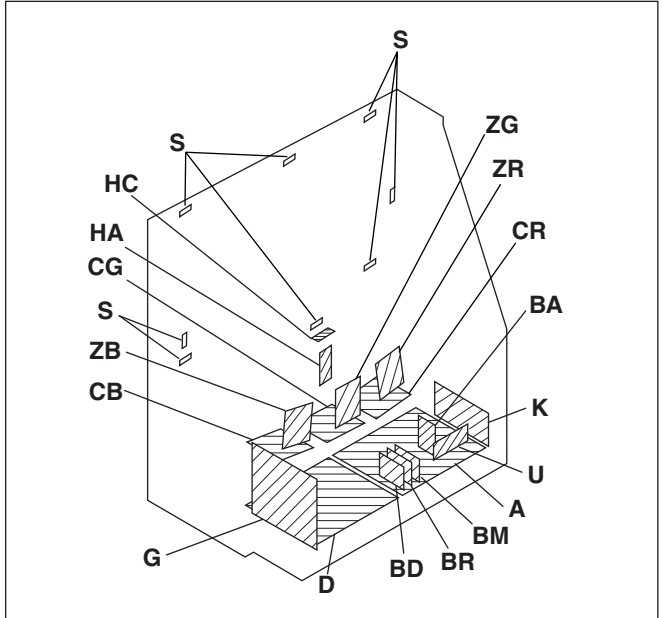
BLOCK DIAGRAM (8)



6-2. FRAME SCHEMATIC DIAGRAM



6-3. CIRCUIT BOARDS LOCATION



6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- Capacitors without voltage indication are all 50V.
- All resistors are in ohms.
- kΩ=1000Ω, MΩ=1000kΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm
Rating electrical power: 1/4W

- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-chassis.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
- Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R8194, R8196, R8231 and R8232 adjustment on Page 49.)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment ()
C8018, C8064, C8066, C8074, C8082, D8042, IC8002, IC8007, IC8008, Q8022, R8033, R8035, R8036, R8105, R8108, R8112, R8113, R8114, R8128, R8136, R8138, R8139, R8154, R8157, R8168, R8173, R8174, R8177, R8178, R8195, R8196, R8232, T8002 (LOT), T8003 (FBT), HV BLOCK, D BOARD	HV Reagurator (R8196, R8232)
C8018, D8026, D8032, D8035, D8050, IC8006, IC8009, IC8010, Q8021, Q8031, R8092, R8094, R8097, R8109, R8110, R8115, R8117, R8118, R8121, R8123, R8125, R8129, R8135, R8140, R8155, R8190, R8191, R8192, R8193, R8194, R8198, R8231, T8002 (LOT), T8003 (FBT), HV BLOCK, D BOARD	HV HOLD-DOWN (R8194, R8231)

- Readings are taken with a color-bar signal input.
- Readings are taken with a 10MΩ digital multimeter.
- Voltagess are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Measurement impossibility.
- Circled numbers are waveform references.
- : B+ bus.
- - - : B- bus.
- : signal path (RF)

Device	Printed symbol	Terminal name	Circuit
① Transistor		Collector Base Emitter	
② Transistor		Collector Base Emitter	
③ Diode		Cathode Anode	
④ Diode		Cathode Anode (NC)	
⑤ Diode		Cathode Anode (NC)	
⑥ Diode		Common Anode Cathode	
⑦ Diode		Common Anode Cathode	
⑧ Diode		Common Anode Cathode	
⑨ Diode		Common Anode Cathode	
⑩ Diode		Common Cathode Anode	
⑪ Diode		Common Cathode Anode	
⑫ Diode		Anode Cathode Anode	
⑬ Transistor (FET)		Source Gate	
⑭ Transistor (FET)		Source Gate	
—	Discrete semiconductor		

Note: The symbol display is on the component side.

The components identified by shading and mark are critical for safety. Replace only with part number specified.

The symbol indicate fast operating fuse. Replace only with fuse of same rating as marked.

Terminal name of semiconductors in silk screen printed circuit (※)

A (1/4)

TUNER, AV SW, JUNGLE,
VIDEO PROCESSOR

A (2/4)

YUV SW,
CHROMA DECODER

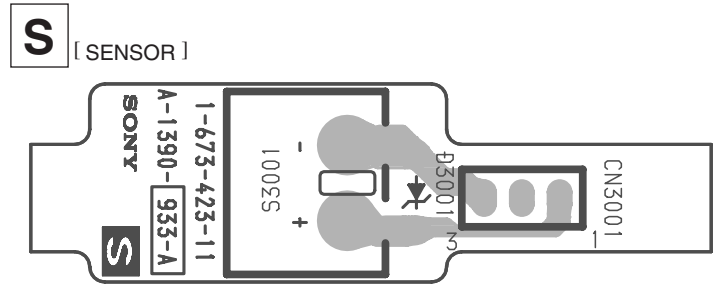
A (3/4)

IU COM OSD

A (4/4)

I REGI SENSOR I/F

— A Board —

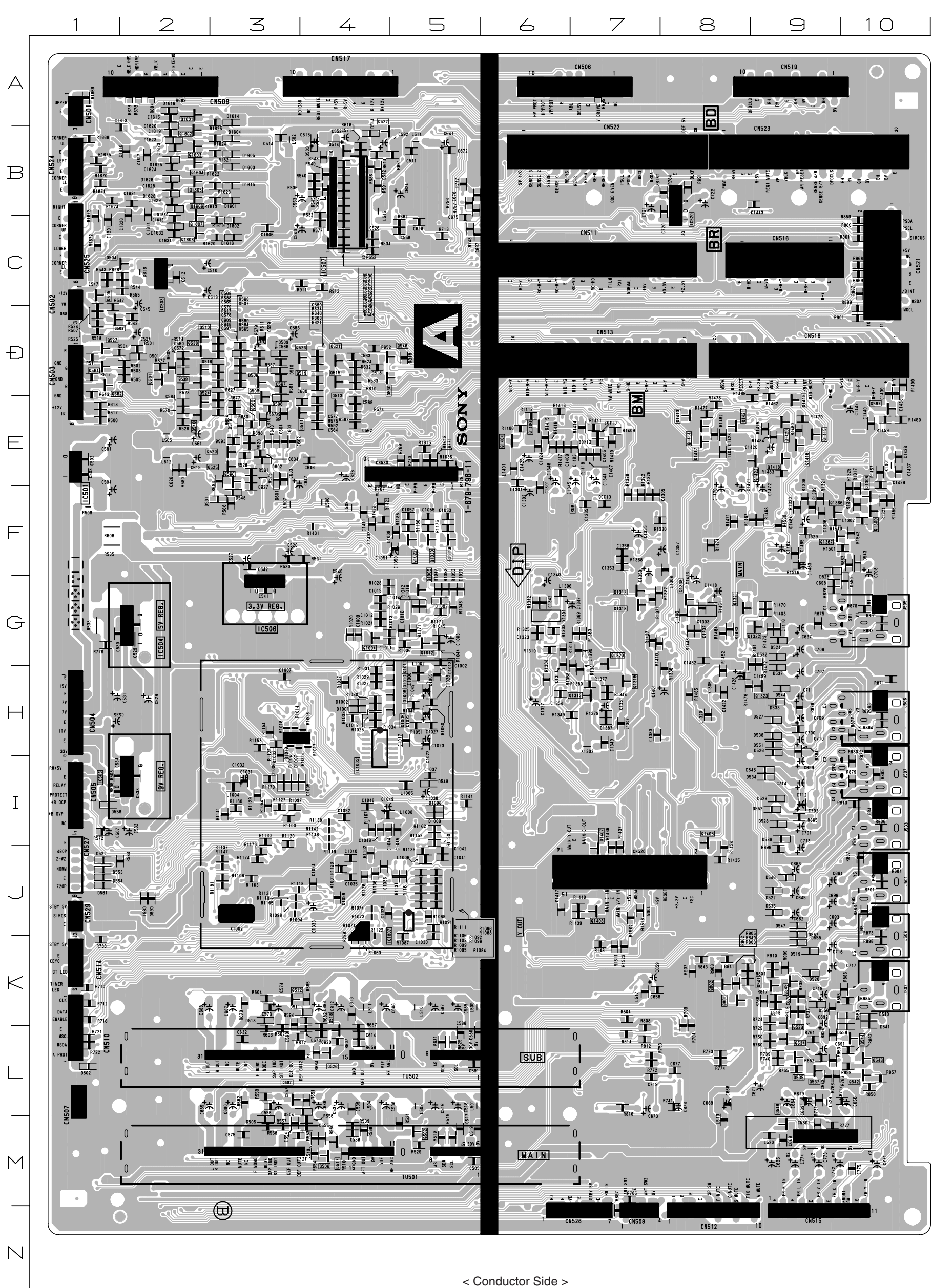
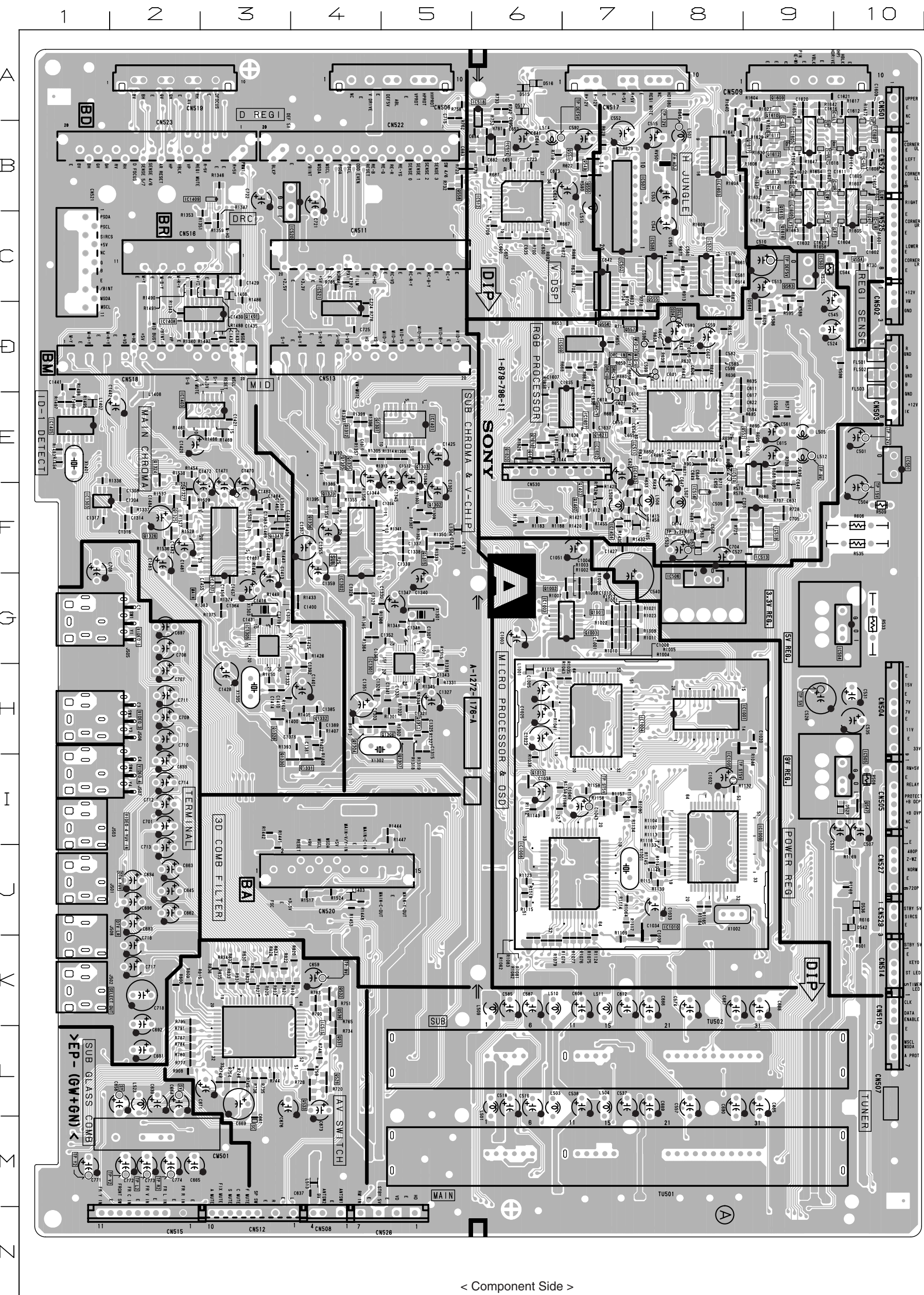


A BOARD

DIODE	D1604		B-3	Q562	D-1	Q1601	A-2
	L	R					
D501	D-2	Q		Q563	C-9	Q1602	B-2
D502	L-1	Q		Q564	C-9	Q1603	B-2
D503	B-4	Q		Q567	D-10	Q1604	B-2
D504	L-1	Q		Q801	K-8	Q1605	B-2
D505	M-3	Q		Q802	K-8	Q1606	B-2
D506	E-3	Q		Q1001	G-7	Q1607	B-2
D508	D-3	Q		Q1002	G-7	Q1608	B-2
D509	D-3	Q		Q1003	G-7	Q1609	A-9
D511	K-4	Q		Q1004	G-4	Q1610	B-9
D512	B-4	Q		Q1005	G-5	Q1611	B-9
D513	K-3	Q		Q1006	H-5	Q1612	B-9
D514	B-4	Q		Q1008	H-5	Q1613	B-9
D515	A-6	Q		Q1010	H-5	Q1614	B-9
D516	A-6	Q		Q1011	H-5	Q1615	B-9
D517	A-6	Q		Q1012	G-5	Q1616	C-9
D518	E-3	Q		Q1015	I-9	Q1617	B-8
D519	K-9	Q		Q1018	F-5	Q1618	E-6
D520	K-9	Q		Q1020	F-5	Q1619	E-6
D521	D-10	Q		Q1022	F-5	Q1620	E-6
D522	J-9	Q		Q1301	E-4	Q1621	B-5
D523	J-10	Q		Q1302	F-5	Q1628	B-5
D524	G-9	Q		Q1303	E-5	Q1629	B-5
D525	F-10	Q		Q1304	H-4	Q1630	A-5
D526	H-9	Q		Q1306	H-5	Q1631	B-6
D527	H-9	Q		Q1307	H-5		
D528	I-9	Q		Q1308	F-10		
D529	I-9	Q		Q1309	F-10		
D530	F-8	Q		Q1311	H-5		
D531	G-9	Q		Q1312	E-4		
D532	H-9	Q		Q1313	H-7		
D533	I-9	Q		Q1315	F-5		
D534	J-9	Q		Q1317	G-7		
D535	J-10	Q		Q1318	H-7		
D536	G-9	Q		Q1319	H-7		
D537	H-9	Q		Q1320	G-9		
D538	H-9	Q		Q1321	D-4		
D539	I-9	Q		Q1322	G-9		
D540	K-10	Q		Q1323	H-9		
D541	K-10	Q		Q1324	F-2		
D542	J-10	Q		Q1325	F-2		
D543	F-10	Q		Q1326	F-2		
D544	H-9	Q		Q1327	F-2		
D545	I-9	Q		Q1328	H-3		
D546	J-9	Q		Q1329	F-4		
D547	J-9	Q		Q1330	I-4		
D548	F-3	Q		Q1331	I-4		
D549	I-5	Q		Q1332	H-4		
D550	G-10	Q		Q1333	E-4		
D551	H-9	Q		Q1334	E-4		
D552	I-9	Q		Q1336	F-4		
D553	J-1	Q		Q1338	D-2		
D554	K-9	Q		Q1339	F-3		
D555	K-9	Q		Q1340	F-2		
D556	K-9	Q		Q1341	K-8		
D557	J-9	Q		Q1342	L-10		
D558	J-1	Q		Q1343	L-10		
D559	K-10	Q		Q1344	L-10		
D560	K-10	Q		Q1345	L-10		
D561	J-1	Q		Q1346	L-10		
D1001	H-4	Q		Q1347	L-10		
D1002	H-4	Q		Q1348	L-10		
D1003	G-5	Q		Q1349	L-10		
D1005	I-3	Q		Q1350	L-10		
D1006	I-3	Q		Q1351	L-10		
D1007	I-3	Q		Q1352	L-10		
D1008	I-5	Q		Q1353	L-10		
D1009	I-5	Q		Q1354	L-10		
D1010	B-3	Q		Q1355	L-10		
D1011	C-3	Q		Q1356	L-10		
D1012	B-3	Q		Q1357	L-10		
D1013	B-3	Q		Q1358	L-10		

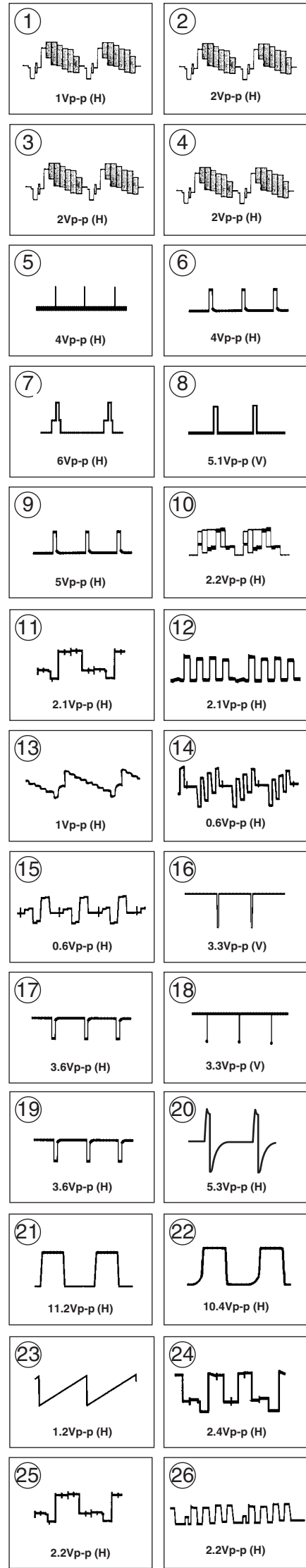
L : component side
R : conductor side

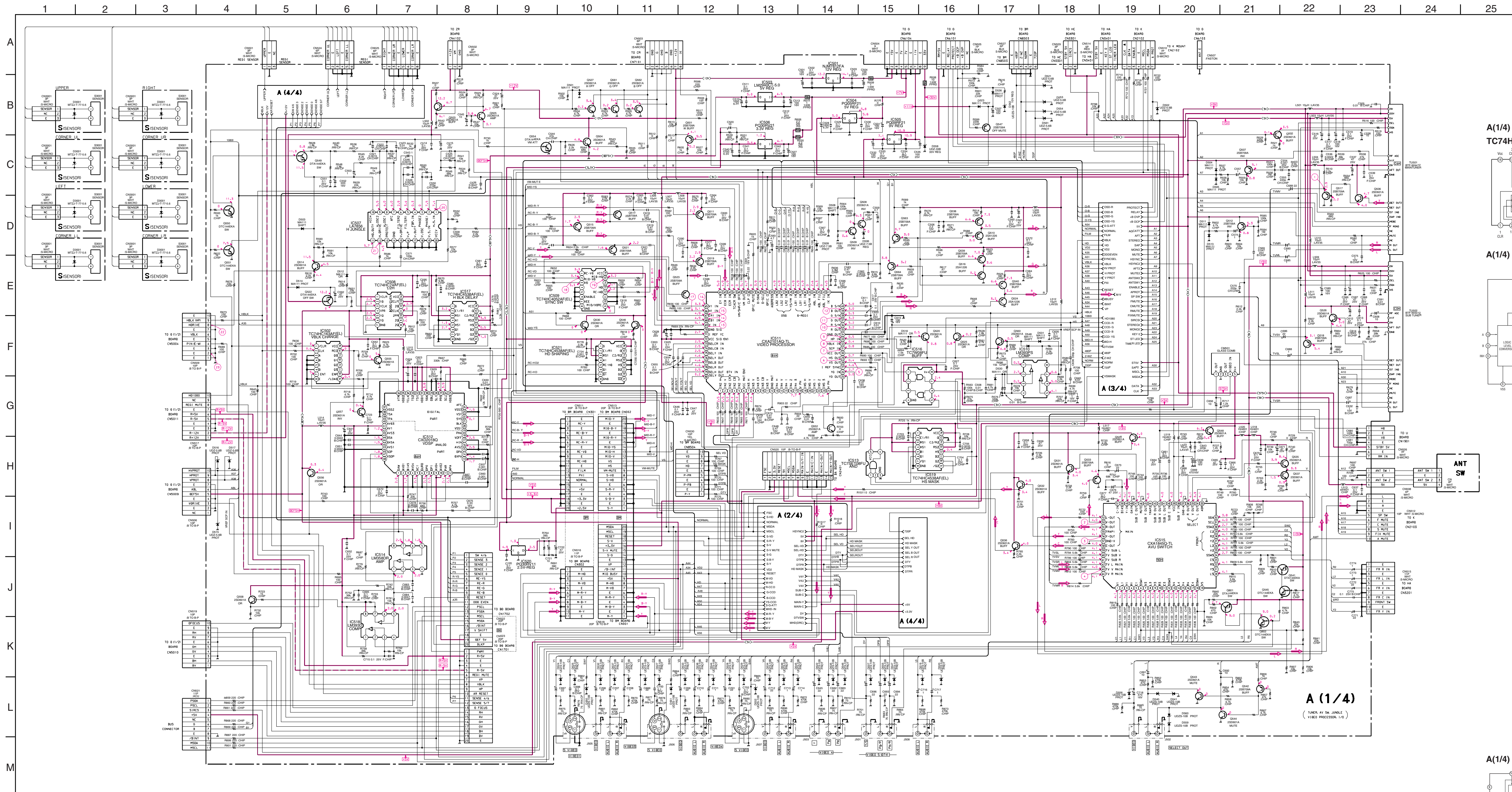
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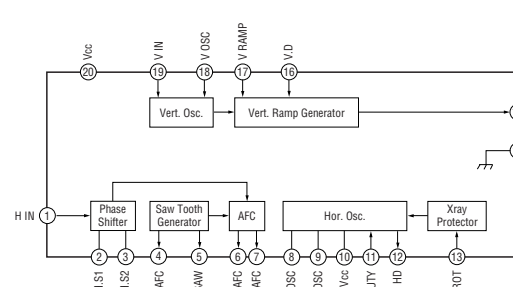
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• A(1/4) BOARD WAVEFORMS

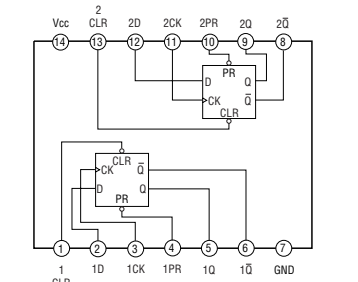




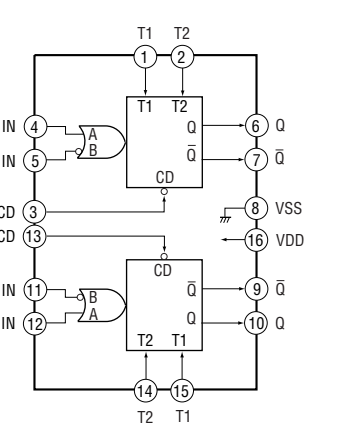
A(1/4) BOARD : IC507 LA7856



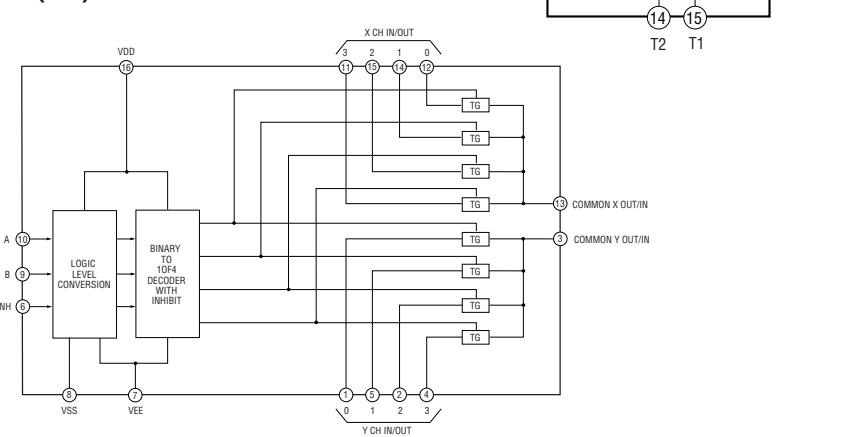
A(1/4) BOARD : IC508 TC74HC74AF (EL)



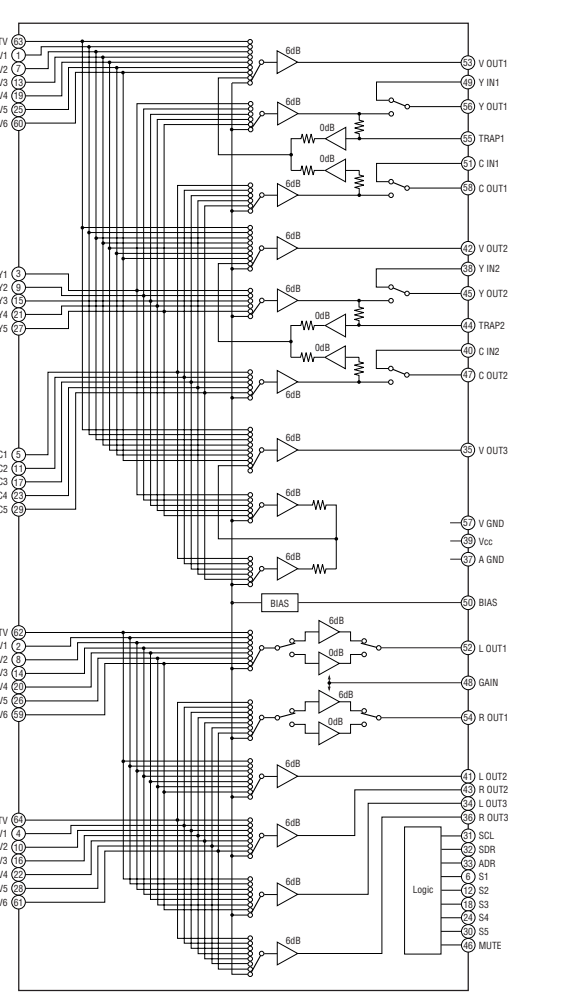
A(1/4) BOARD : IC517, 519 TC74HC4538AF (EL)



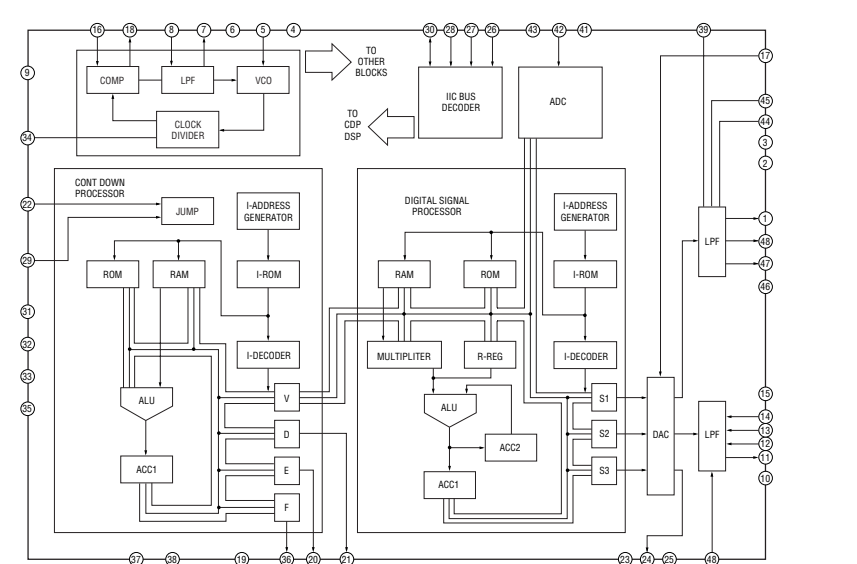
A(1/4) BOARD : IC509 MC74HC4052EL

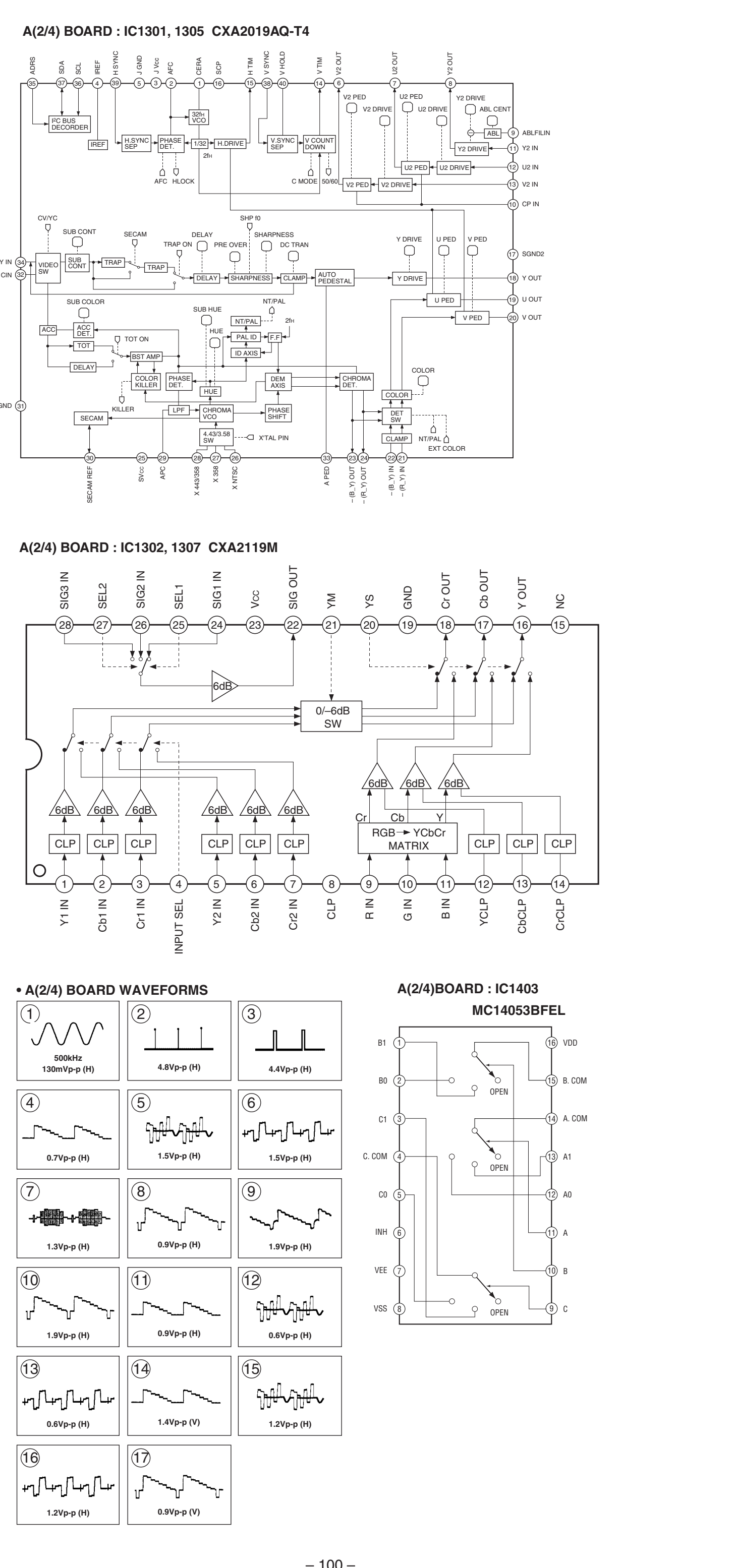
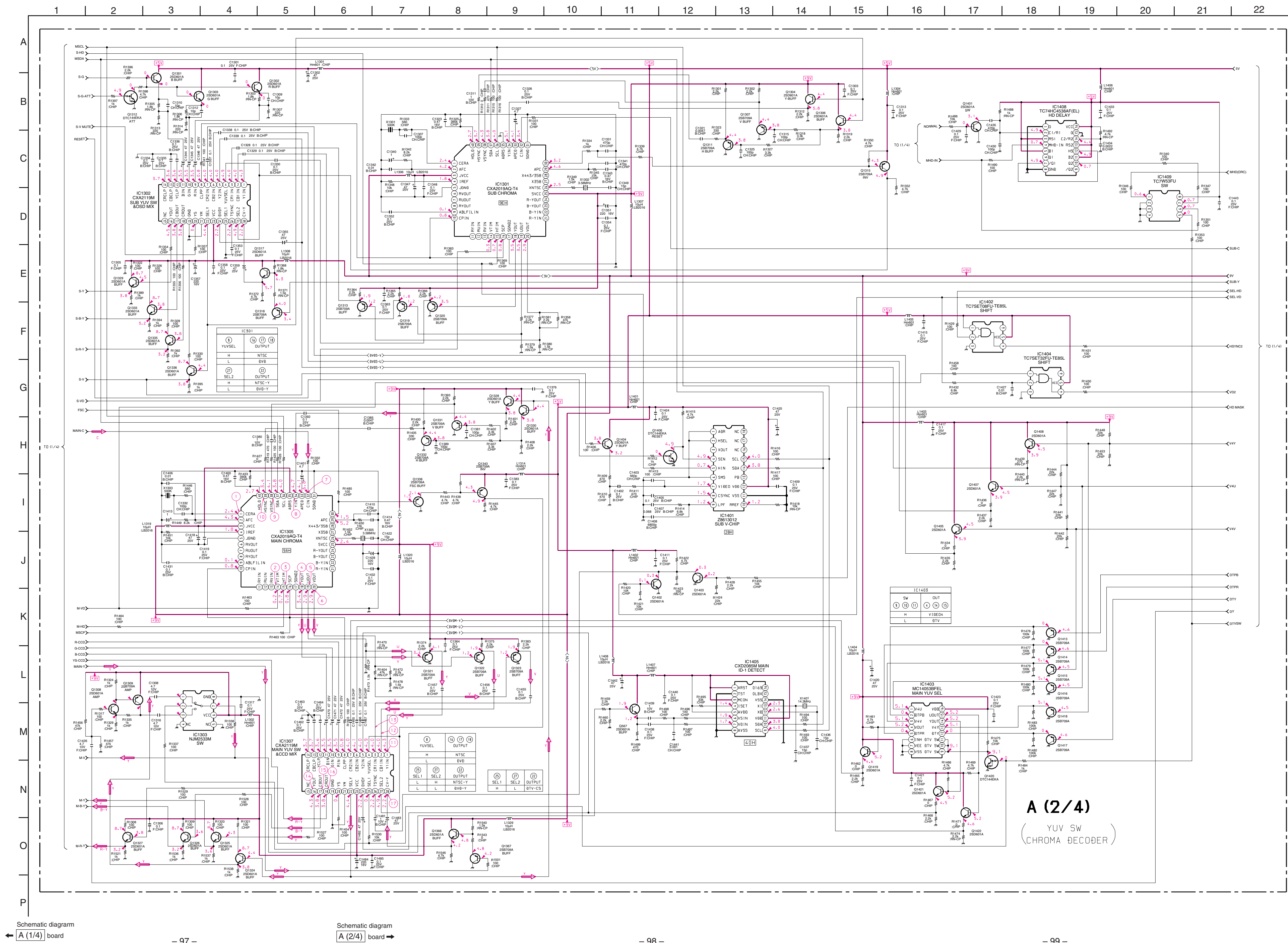


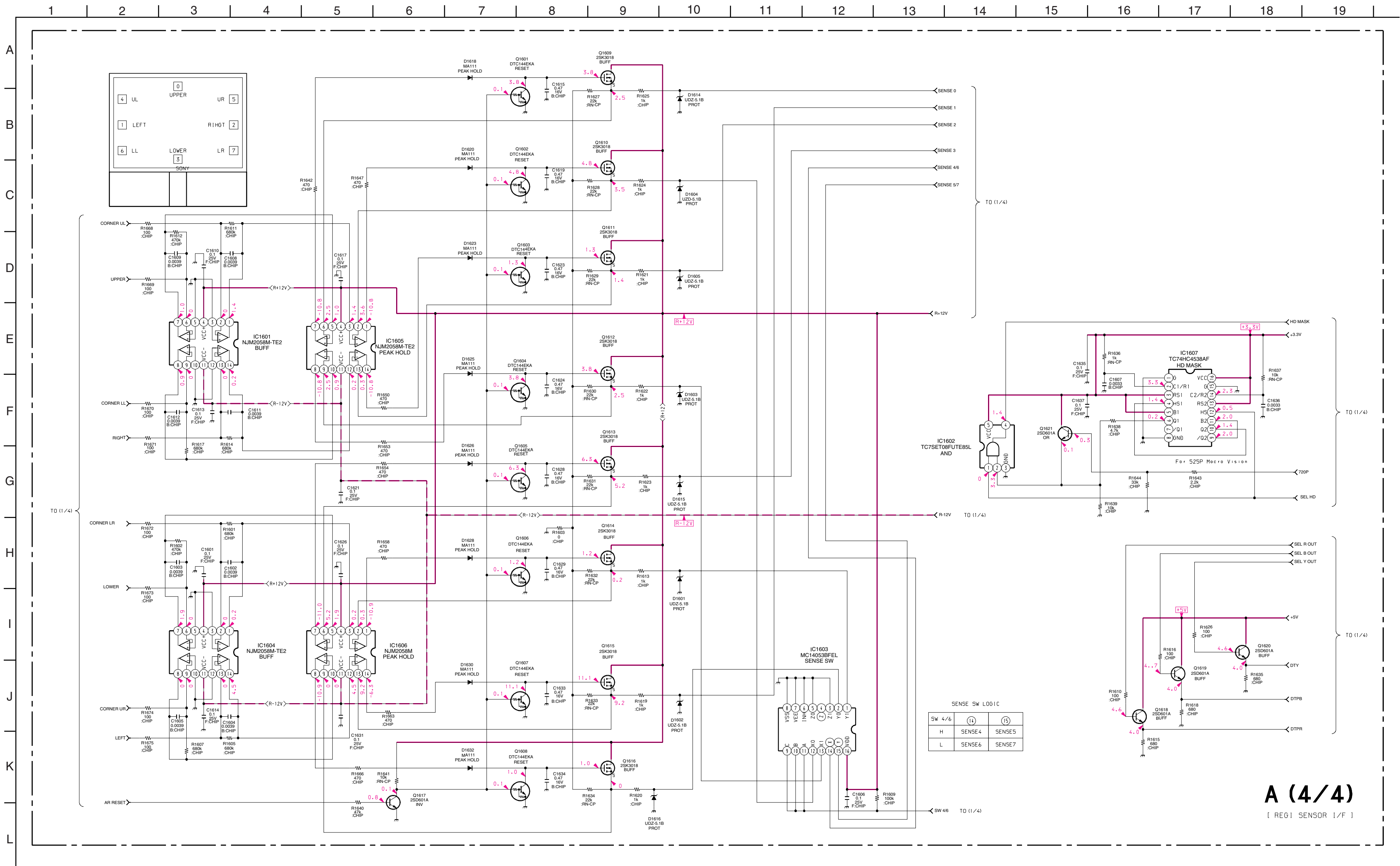
A(1/4) BOARD : IC515 CXA1845AQ



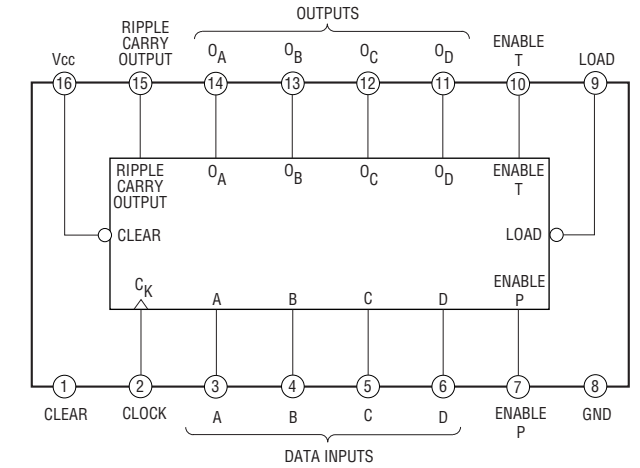
A(1/4) BOARD : IC512 CXD2018Q



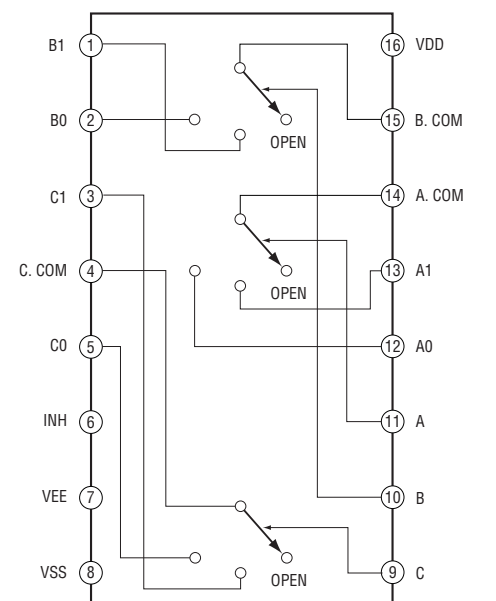


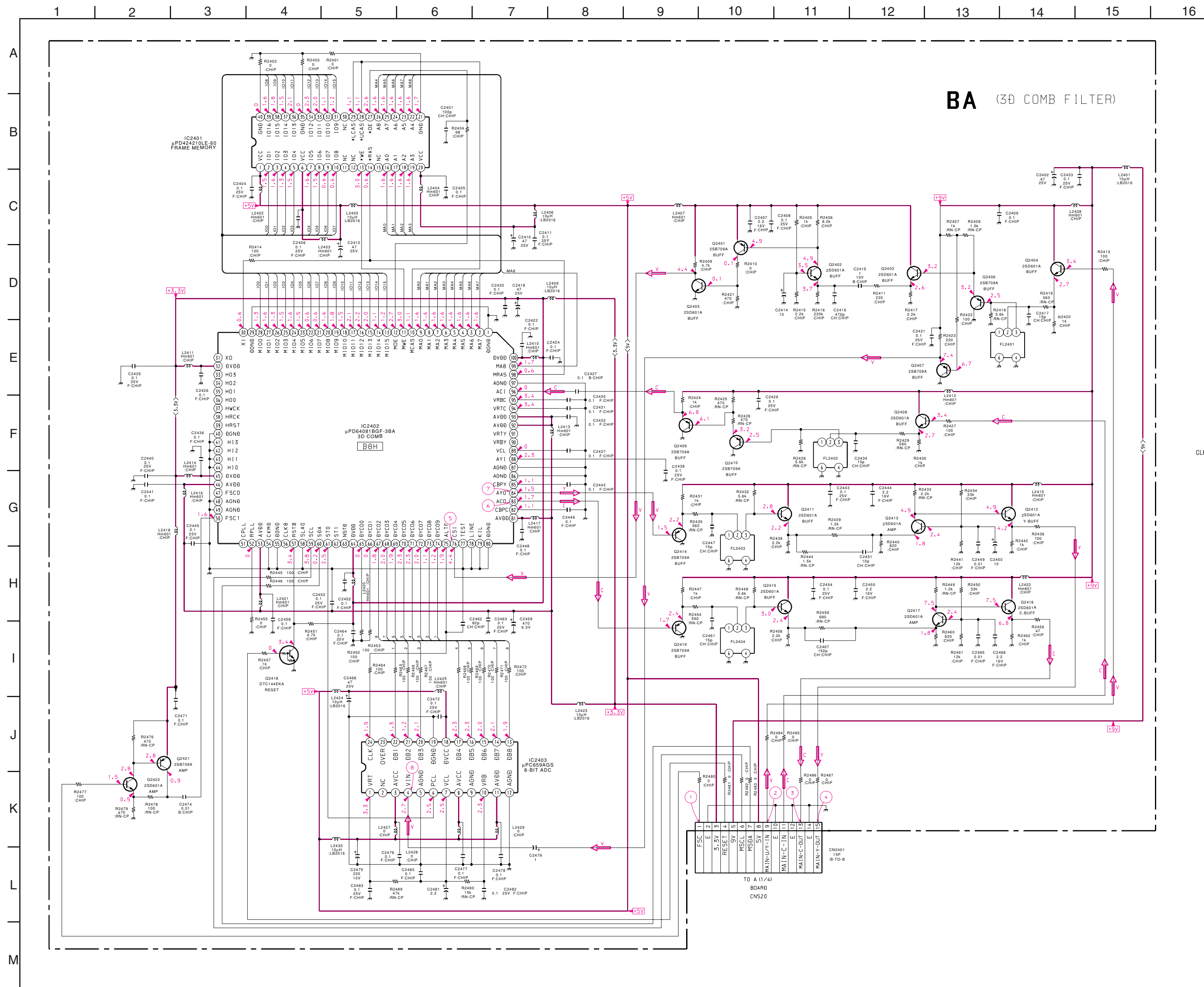


A(4/4) BOARD : IC1609, 1608 TC74HC163AF(EL)

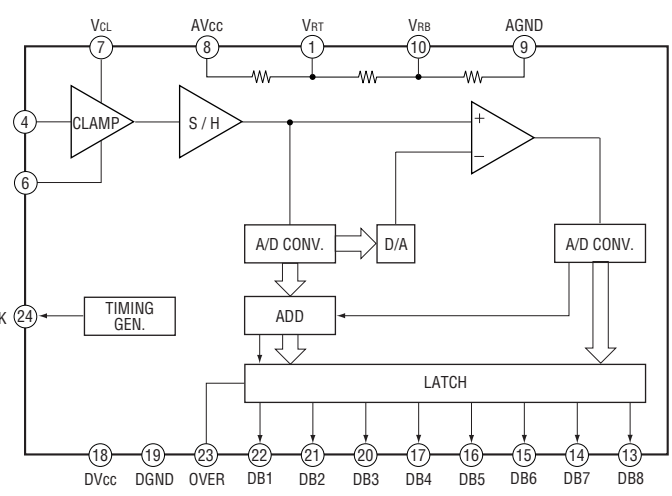


A(4/4) BOARD : IC1603 MC14053BFEL

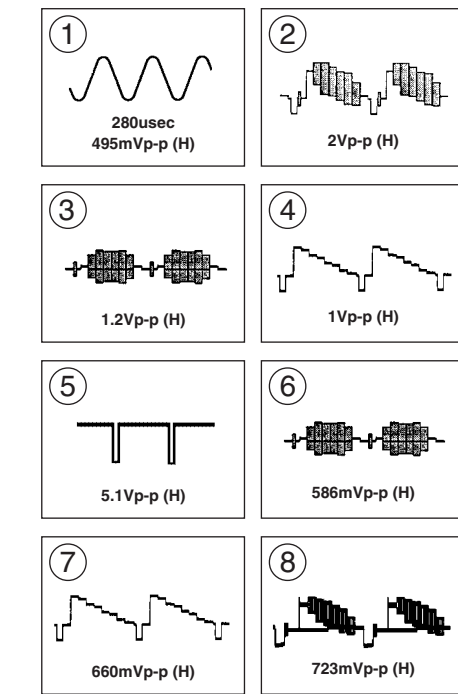




BA BOARD : IC7301 TDA6111Q/N4

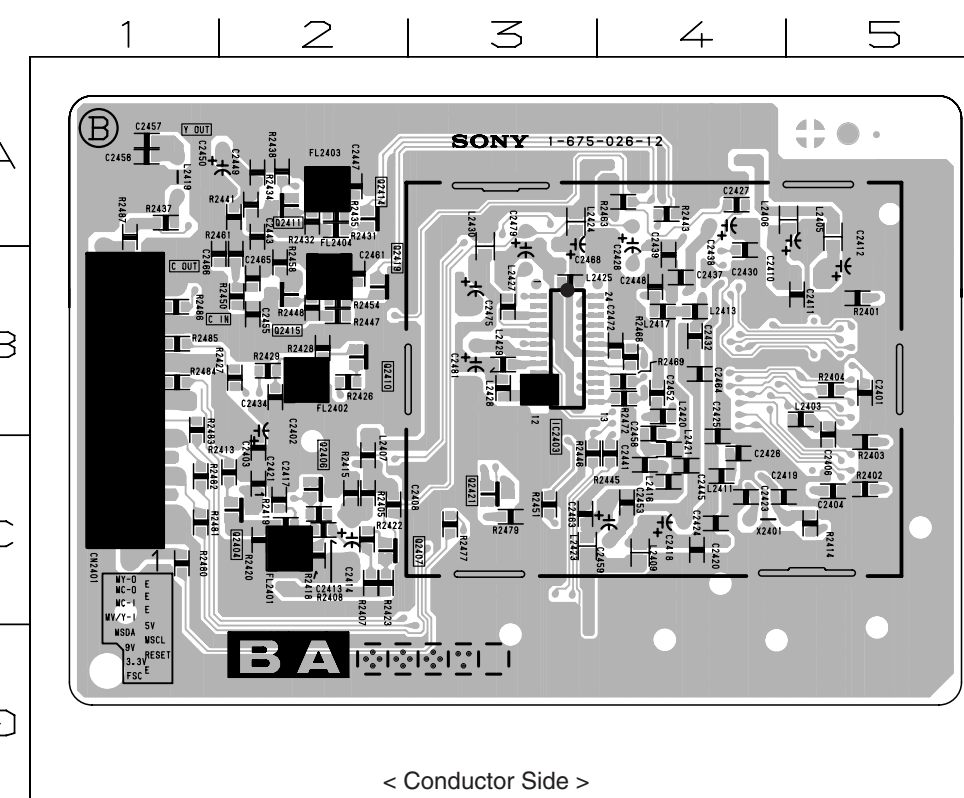
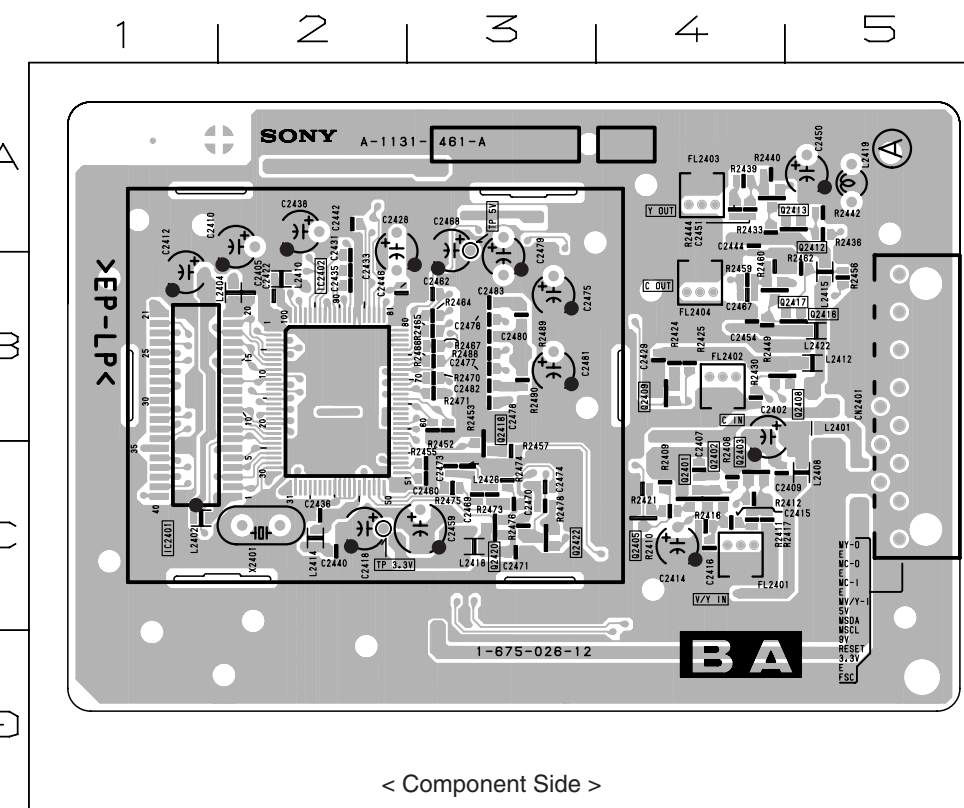


• BA BOARD WAVEFORMS



BA [3D COMB FILTER]

- BA Board -

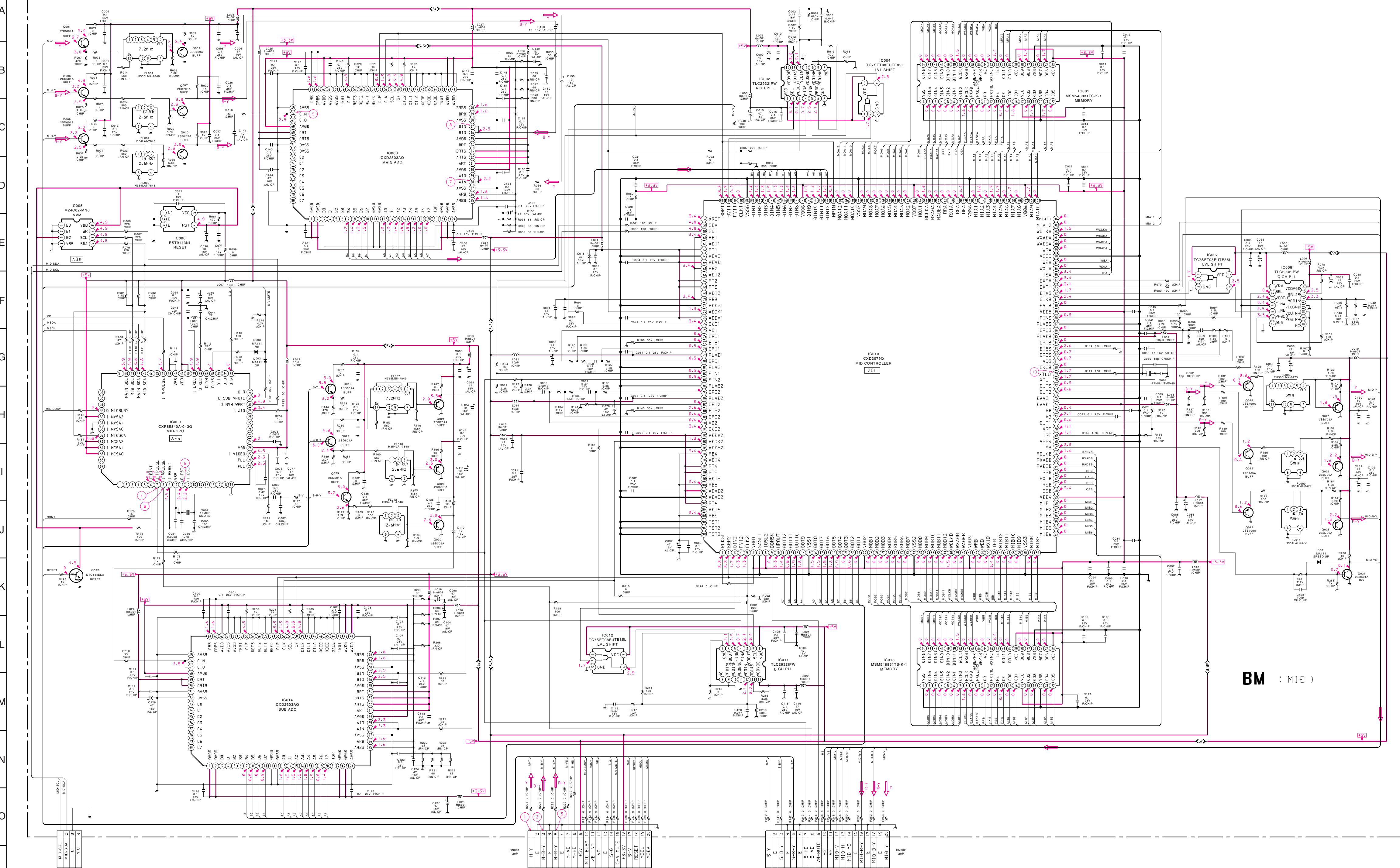


BA BOARD

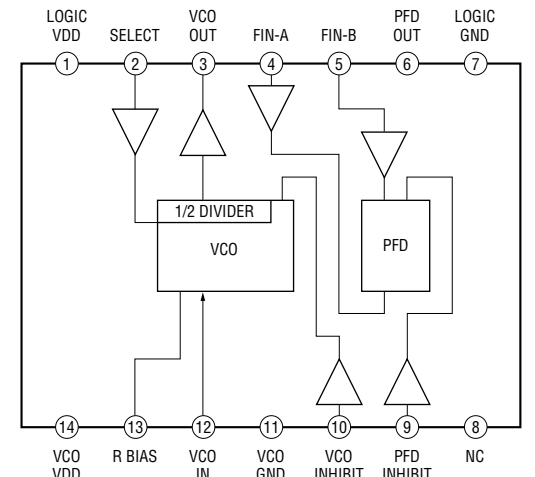
TRANSISTOR		
	L	R
Q2401	C-4	②
Q2402	C-4	②
Q2403	C-4	②
Q2404	C-2	①
Q2405	C-4	②
Q2406	C-2	①
Q2407	B-4	②
Q2408	B-4	②
Q2409	B-4	②
Q2410	B-2	①
Q2411	A-2	①
Q2412	A-5	②
Q2413	A-4	②
Q2414	A-2	①
Q2415	B-2	①
Q2416	B-5	②
Q2417	B-4	②
Q2418	C-3	②
Q2419	B-2	①
Q2421	C-3	①
Q2422	C-3	②

IC		
	L	R
IC2401	B-1	
IC2402	B-2	
IC2403	B-3	

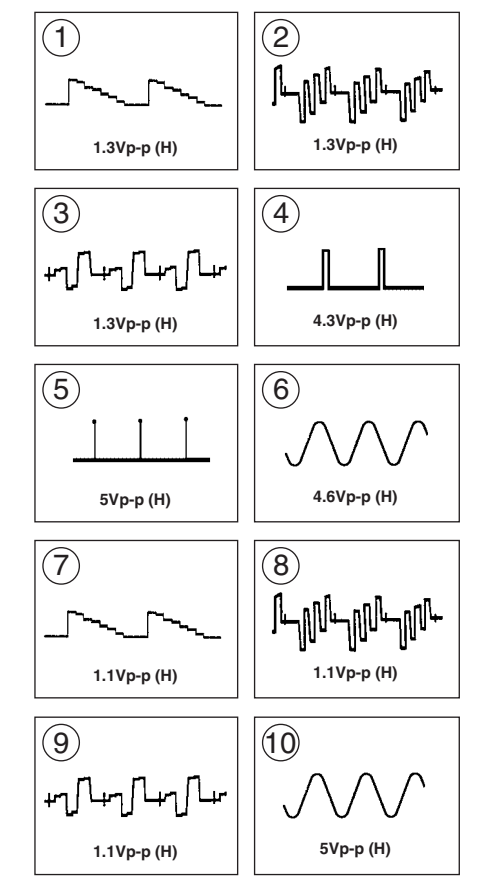
L : component side
R : conductor side

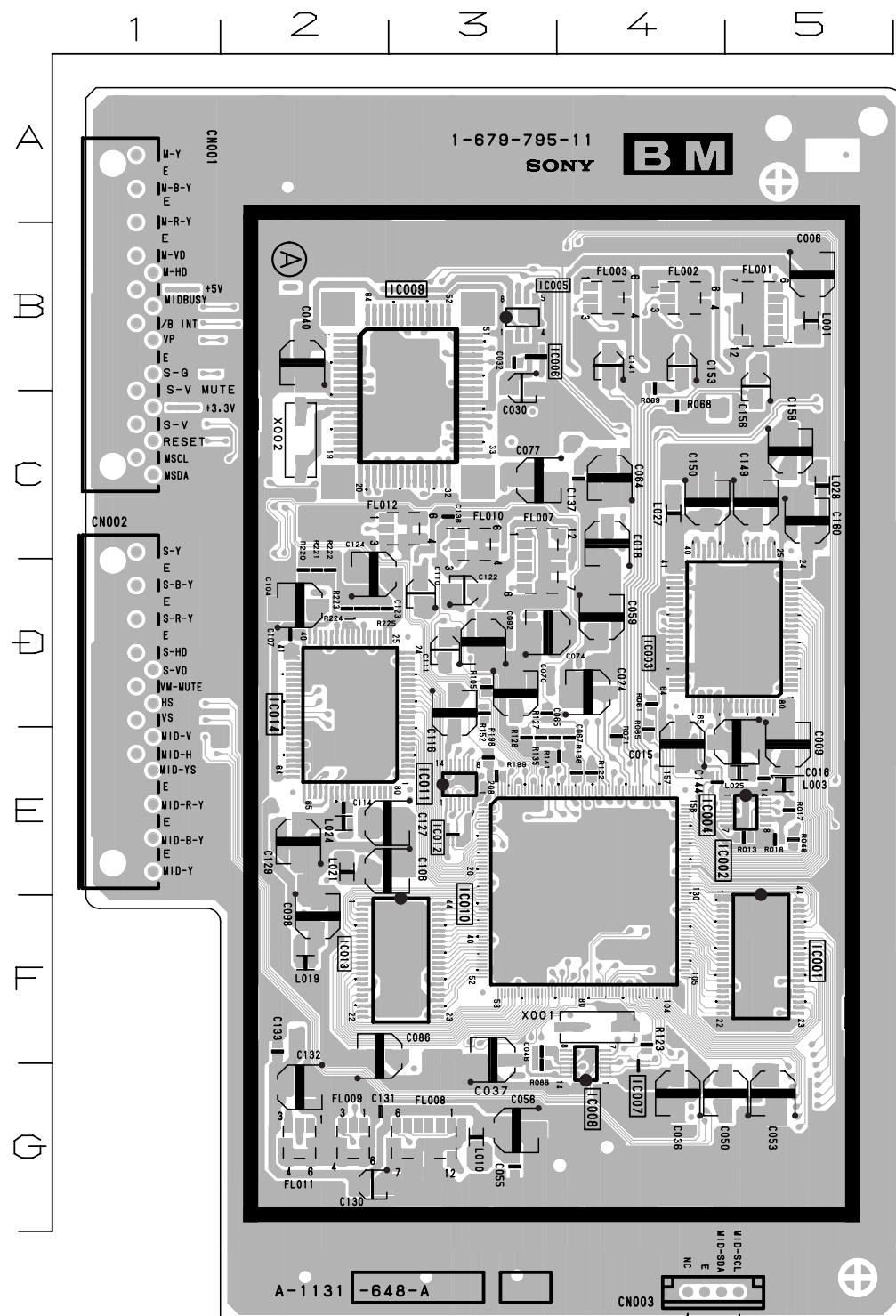


BM BOARD : IC002, 008, 011 TLC2932IPW

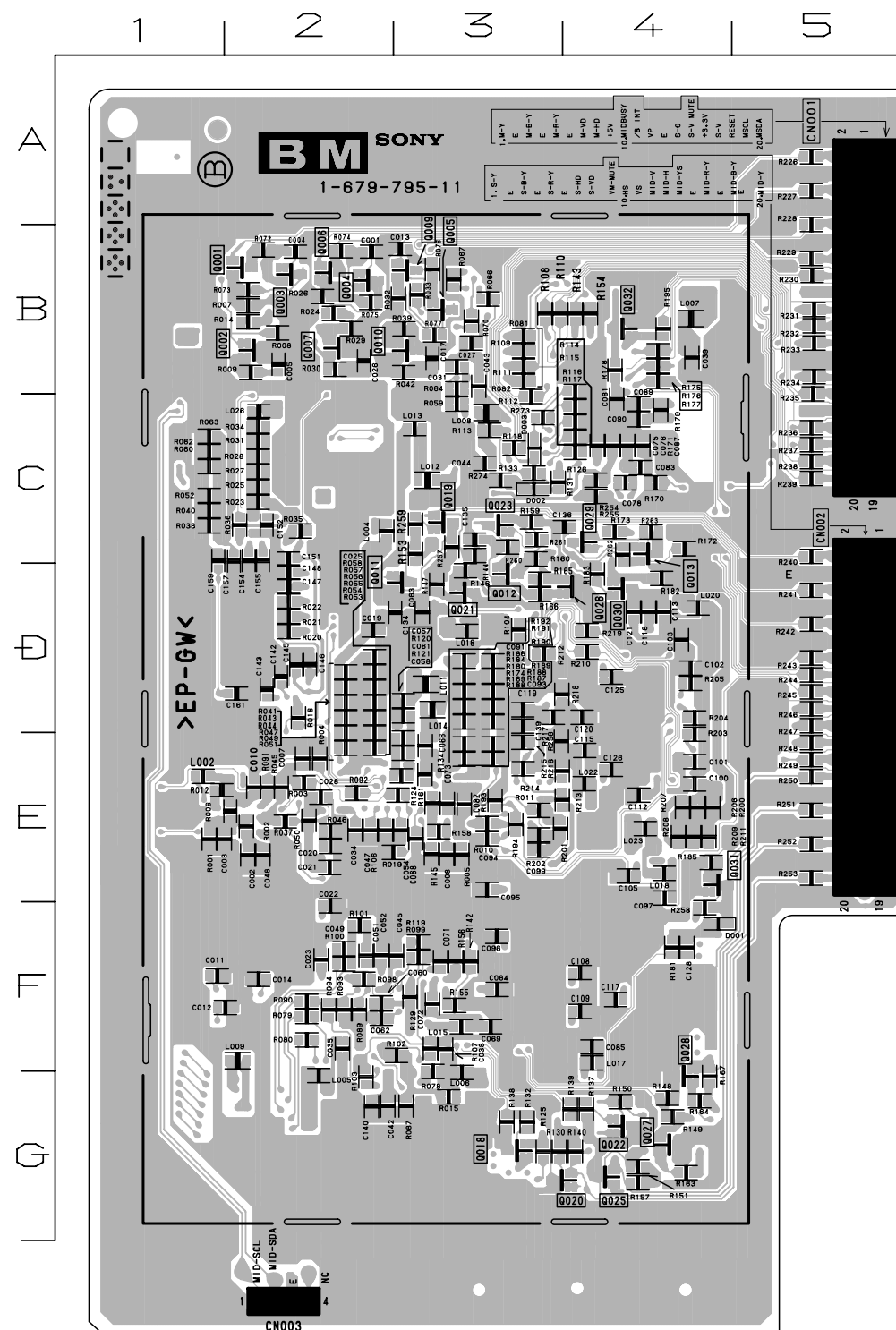


• BM BOARD WAVEFORMS





< Component Side >



< Conductor Side >

BM BOARD

DIODE		
L	R	*
D001	F-4	③
D002	C-3	③
D003	C-3	③
TRANSISTOR		
L	R	*
Q001	B-2	①
Q002	B-2	①
Q006	B-2	①
Q007	B-2	①
Q009	B-3	①
Q010	B-3	①
Q018	G-3	①
Q019	C-3	①
Q020	G-4	①
Q021	D-3	①
Q022	G-5	①
Q023	C-3	①
Q025	G-4	①
Q026	D-4	①
Q027	G-5	①
Q028	G-5	①
Q029	C-4	①
Q030	D-4	①
Q031	E-4	①
Q032	B-4	①
IC		
L	R	
IC001	F-5	
IC002	E-5	
IC003	D-5	
IC004	E-4	
IC005	B-3	
IC006	B-3	
IC007	G-4	
IC008	G-4	
IC009	C-3	
IC010	E-4	
IC011	E-3	
IC012	E-3	
IC013	F-3	
IC014	D-2	

L ; component side
R ; conductor side

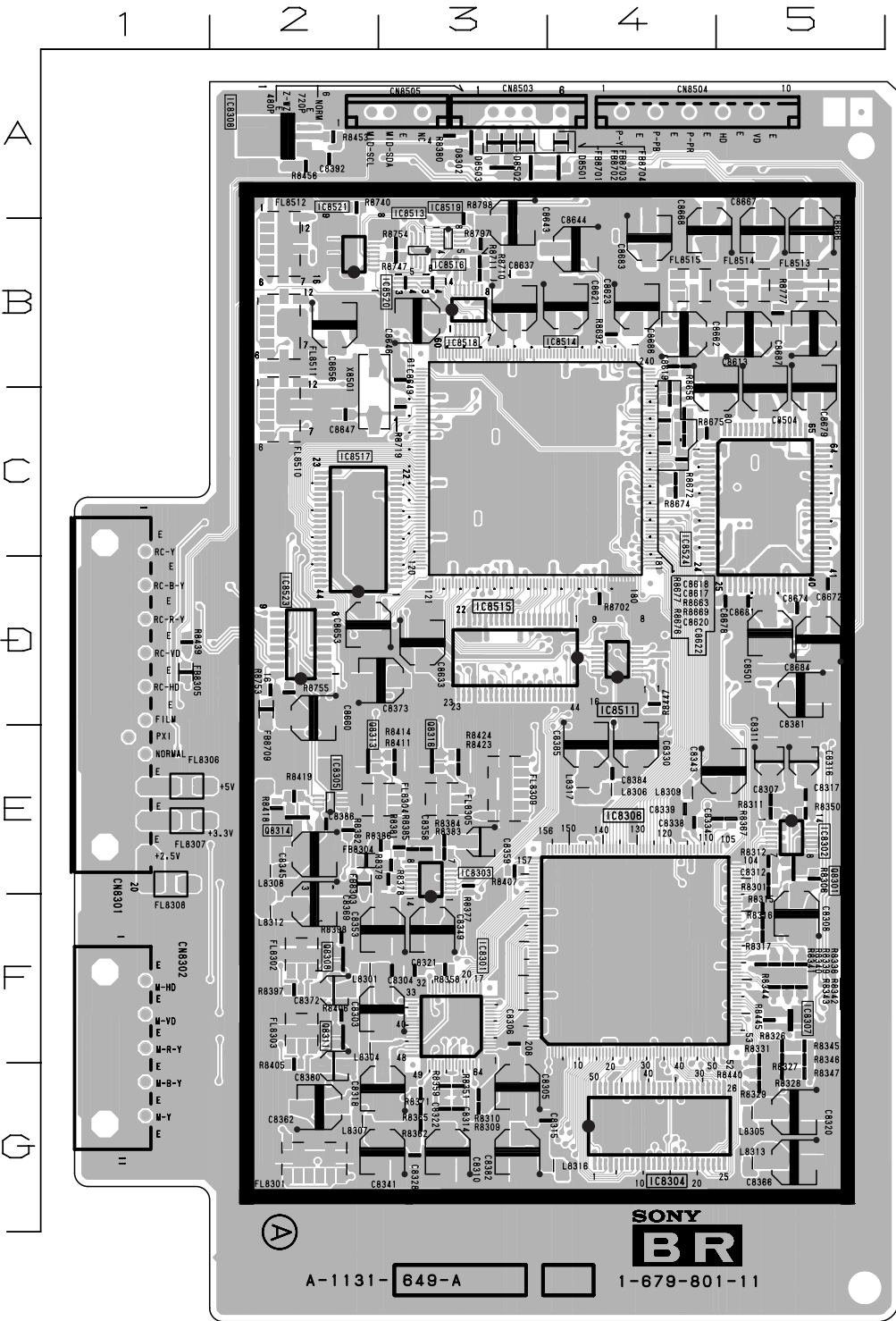


- BR Board -

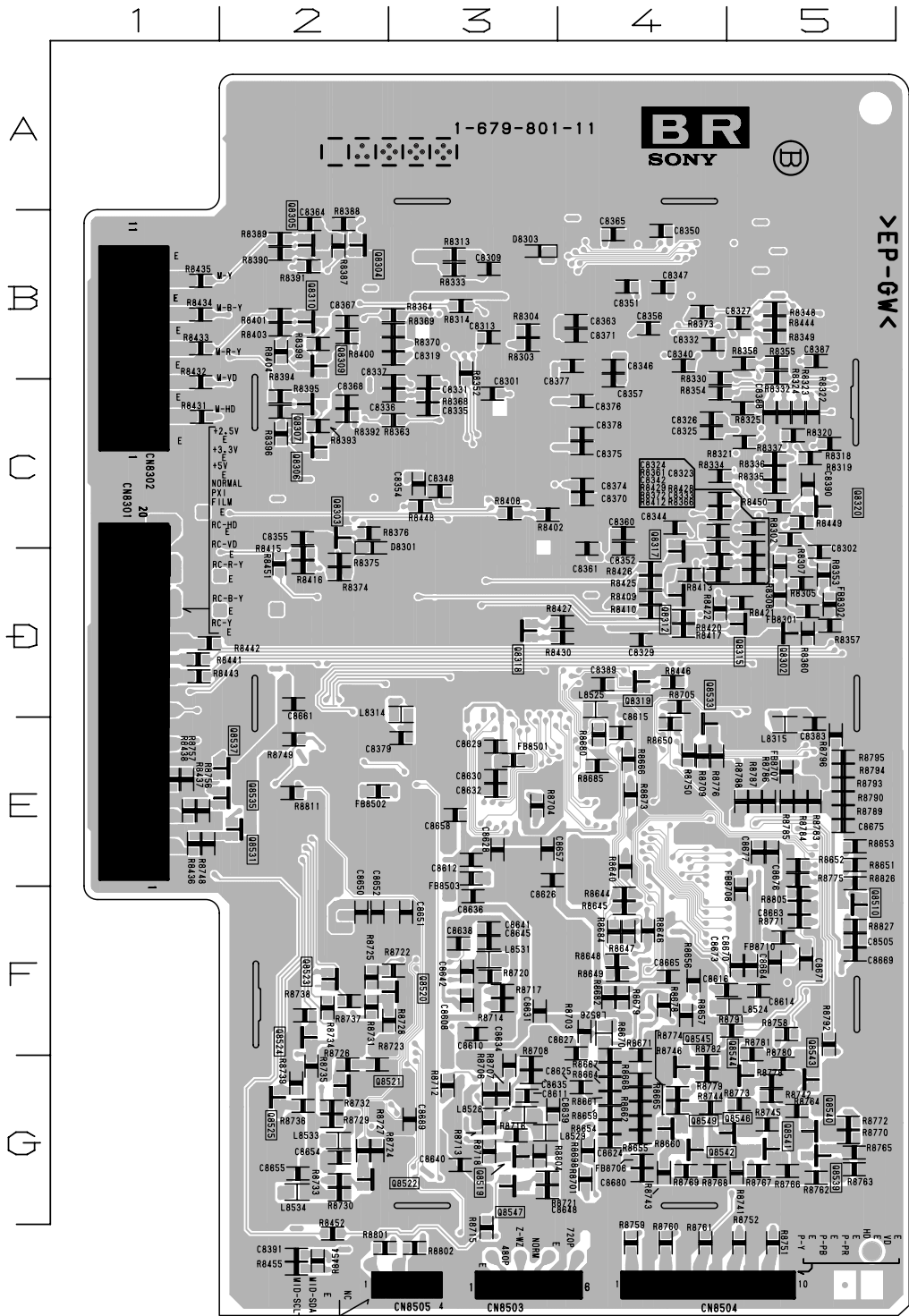
BR BOARD

DIODE			Q8525	G-2	①
L	R	*			
D8301	C-2	③	Q8531	E-2	①
D8302	A-3	⑨	Q8533	E-4	①
D8501	A-4	⑨	Q8535	E-2	①
D8502	A-3	⑨	Q8537	E-2	①
D8503	A-3	⑨	Q8539	G-5	①
TRANSISTOR			Q8540	G-5	①
Q8301	E-5	②	Q8541	G-5	①
Q8302	D-5	①	Q8542	G-4	①
Q8303	C-2	①	Q8543	G-5	①
Q8304	B-2	①	Q8544	G-4	①
Q8305	B-2	①	Q8545	F-4	①
Q8306	C-2	①	Q8546	G-4	①
Q8307	C-2	①	Q8547	G-3	①
Q8308	F-2	②	Q8549	G-4	①
Q8309	B-2	①	IC		
Q8310	B-2	①	IC8301	F-3	
Q8311	F-2	②	IC8302	E-5	
Q8312	D-4	①	IC8303	E-3	
Q8313	E-3	①	IC8304	G-4	
Q8315	D-5	①	IC8305	E-2	
Q8316	E-3	②	IC8306	F-4	
Q8317	D-4	①	IC8308	A-2	
Q8318	D-3	①	IC8511	D-4	
Q8319	D-4	①	IC8513	B-3	
Q8320	C-5	①	IC8514	C-3	
Q8510	F-5	①	IC8515	D-3	
Q8519	G-3	①	IC8516	B-3	
Q8520	F-2	①	IC8517	C-2	
Q8521	G-2	①	IC8518	B-3	
Q8522	G-2	①	IC8519	B-3	
Q8523	F-2	①	IC8520	B-3	
Q8524	F-2	①	IC8521	B-2	
			IC8523	D-2	
			IC8524	C-5	

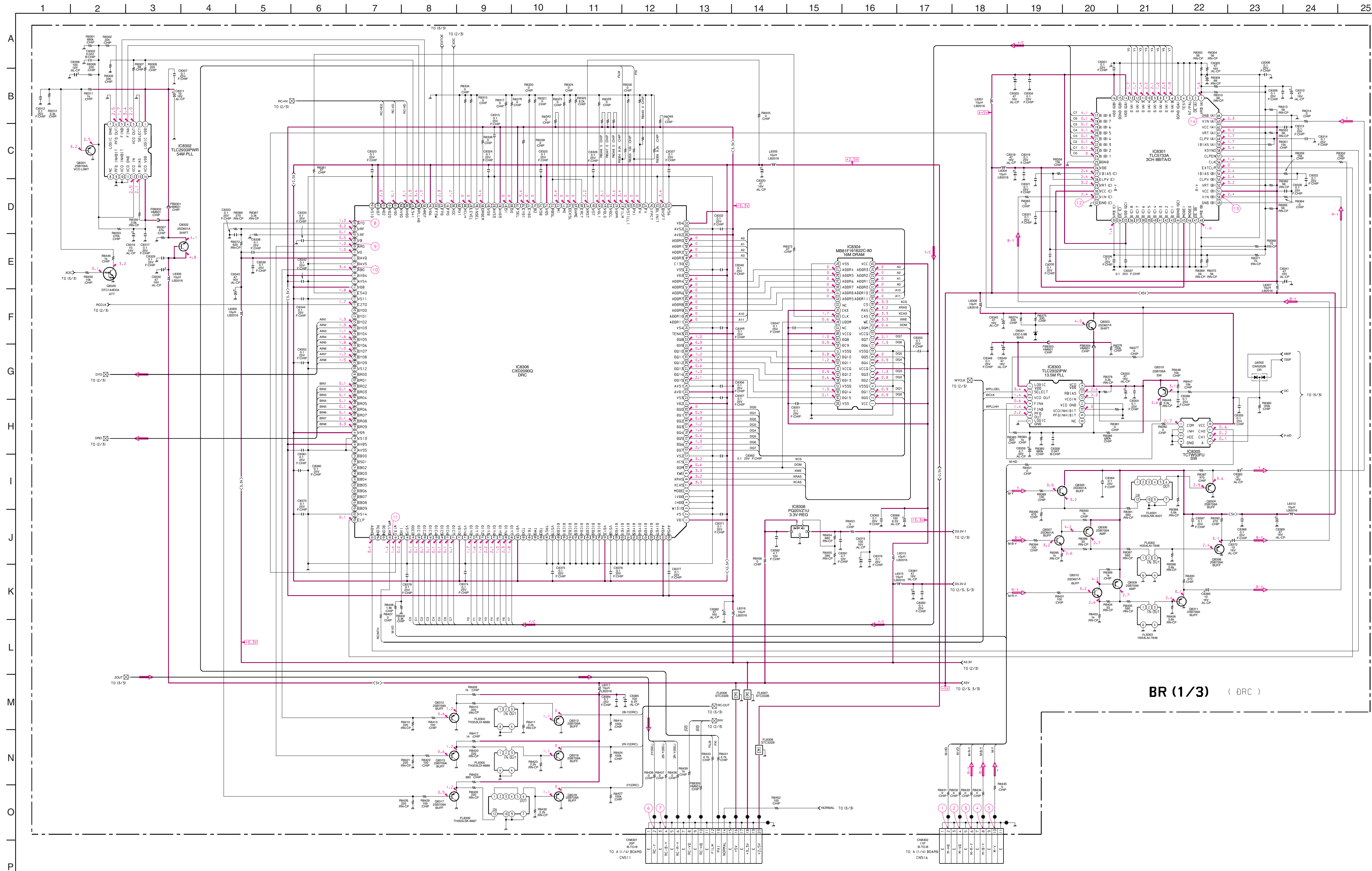
L ; component side
R ; conductor side



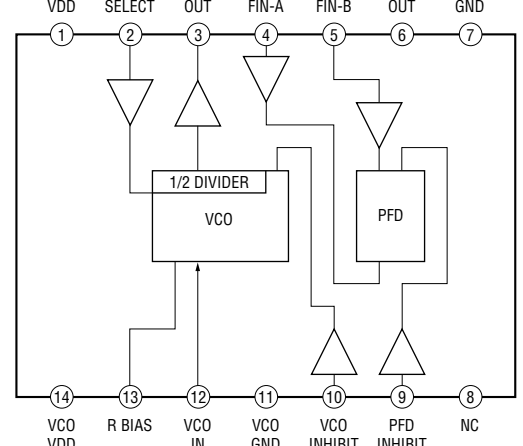
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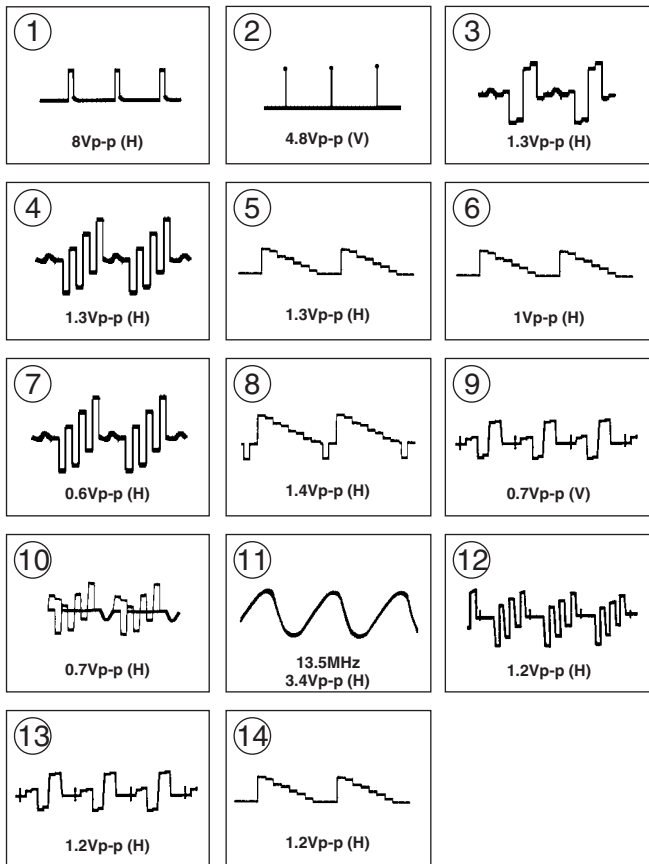
< Conductor Side >

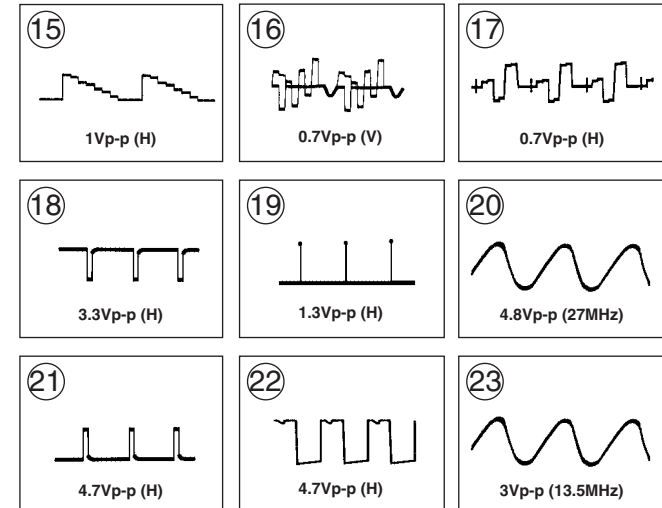


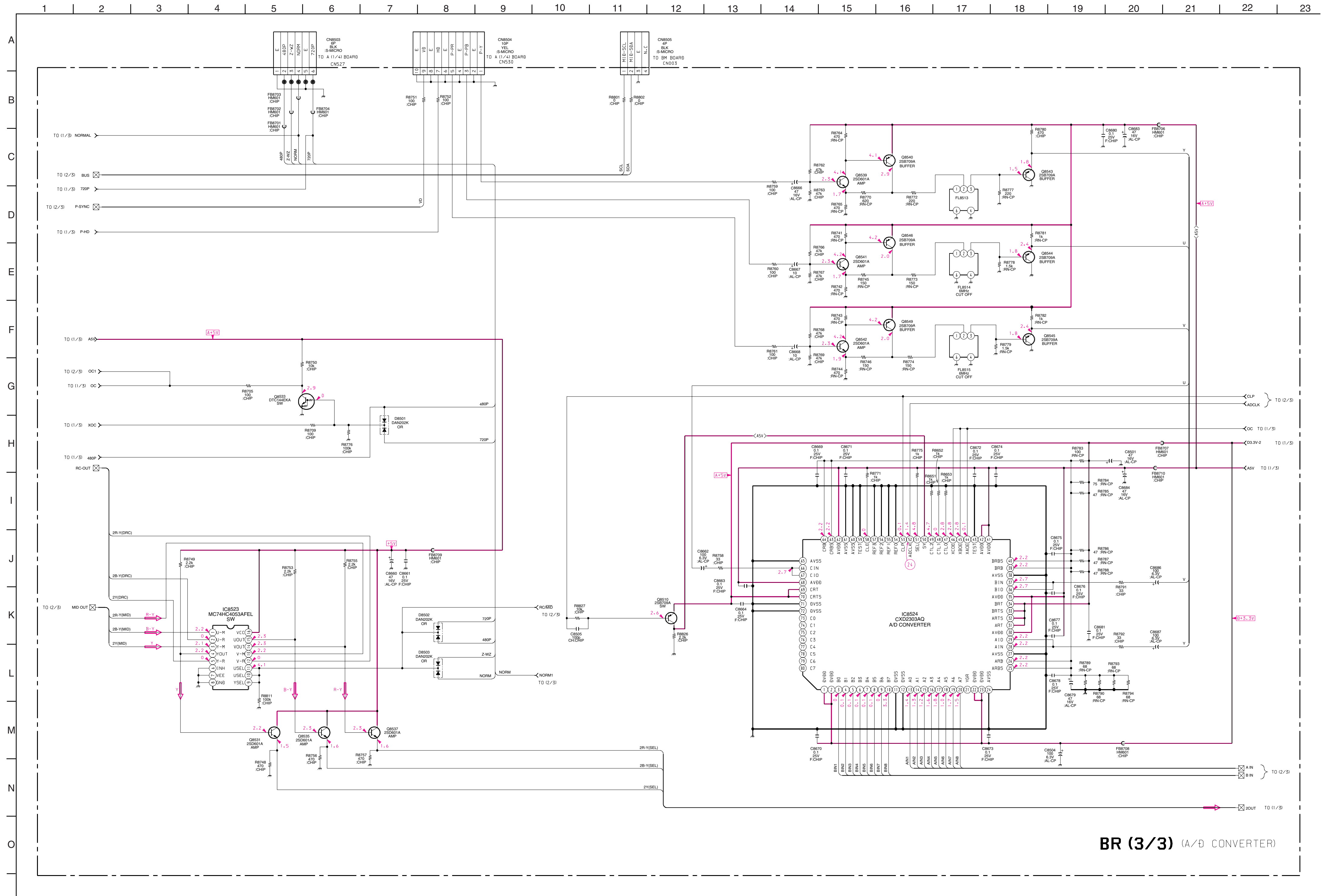
BR BOARD : IC303 TLC2932IPW

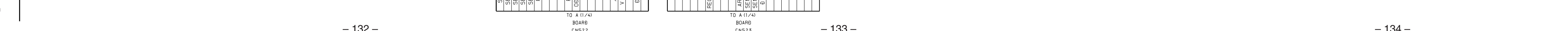
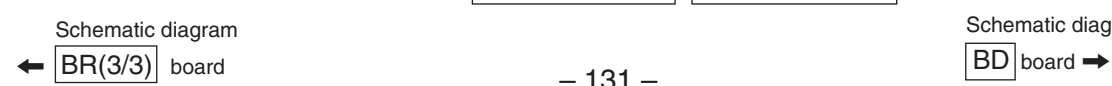


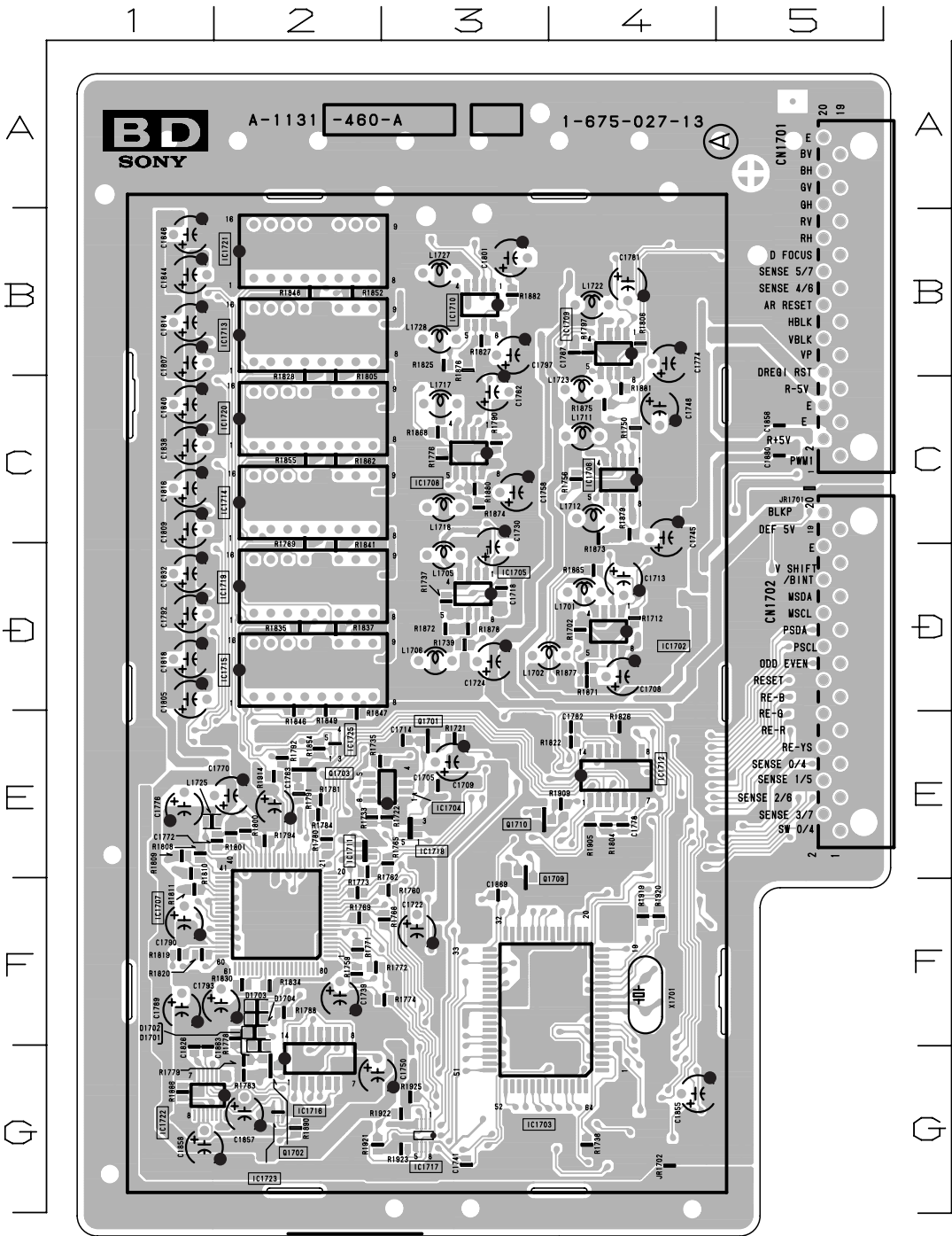
• BR (1/3) BOARD WAVEFORMS



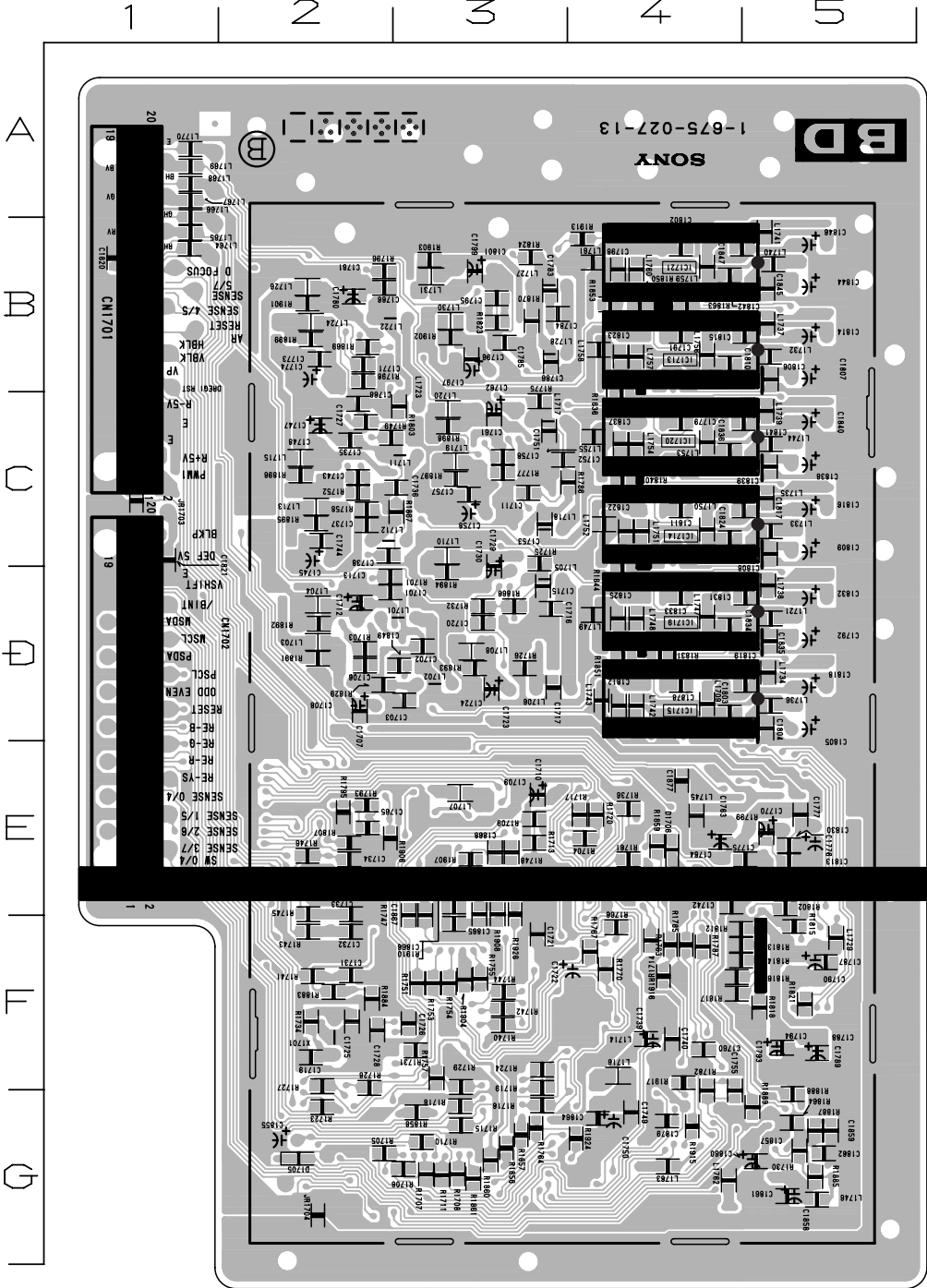








< Component Side >

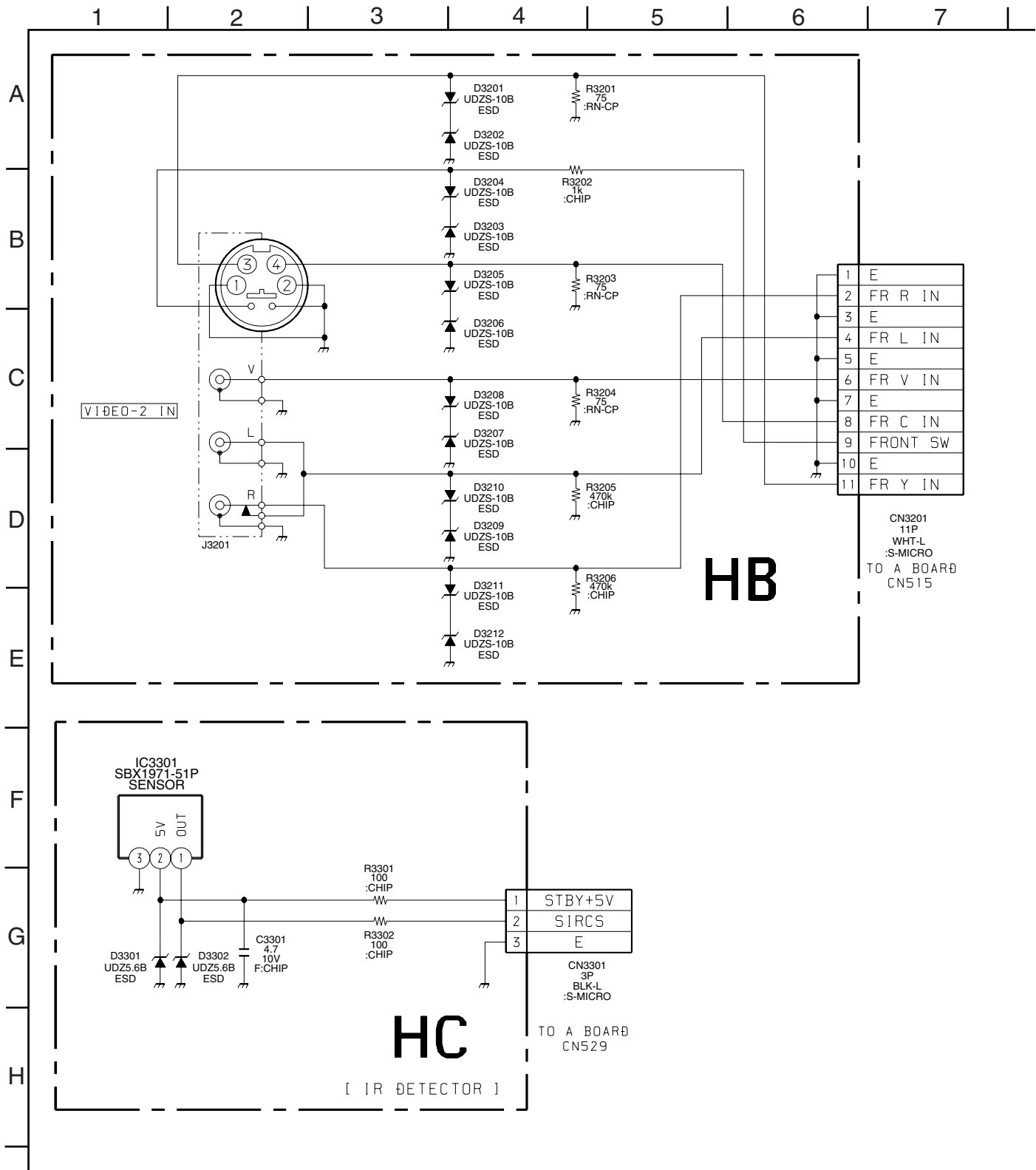


< Conductor Side >

BD BOARD

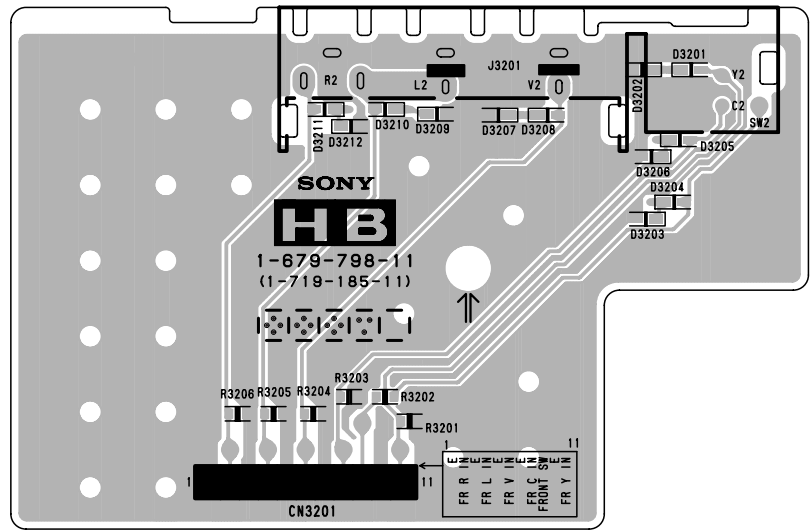
DIODE		
	L	R
D1701	G-2	③
D1702	F-2	③
D1703	F-2	③
D1704	F-2	③
D1705	G-2	③
D1706	E-4	③
TRANSISTOR		
	L	R
Q1701	E-3	②
Q1702	G-2	②
Q1703	E-2	②
Q1709	F-3	②
Q1710	E-3	②
IC		
	L	R
IC1702	D-4	
IC1703	F-4	
IC1704	E-3	
IC1705	D-3	
IC1706	C-4	
IC1707	F-2	
IC1708	C-3	
IC1709	B-4	
IC1710	B-3	
IC1712	E-4	
IC1713	B-2	B-4
IC1714	C-2	C-4
IC1715	D-2	D-4
IC1716	G-2	
IC1717	G-3	
IC1718	E-3	
IC1719	D-2	D-4
IC1720	C-2	C-4
IC1721	B-2	B-4
IC1722	G-1	
IC1723	G-2	
IC1725	E-2	

L ; component side
R ; conductor side



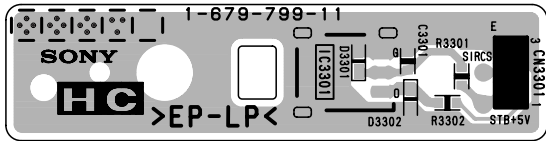
HB [VIDEO 2 IN]

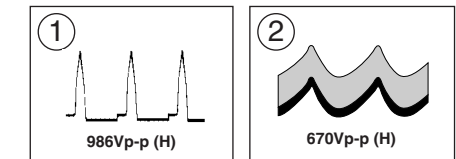
– HB Board –



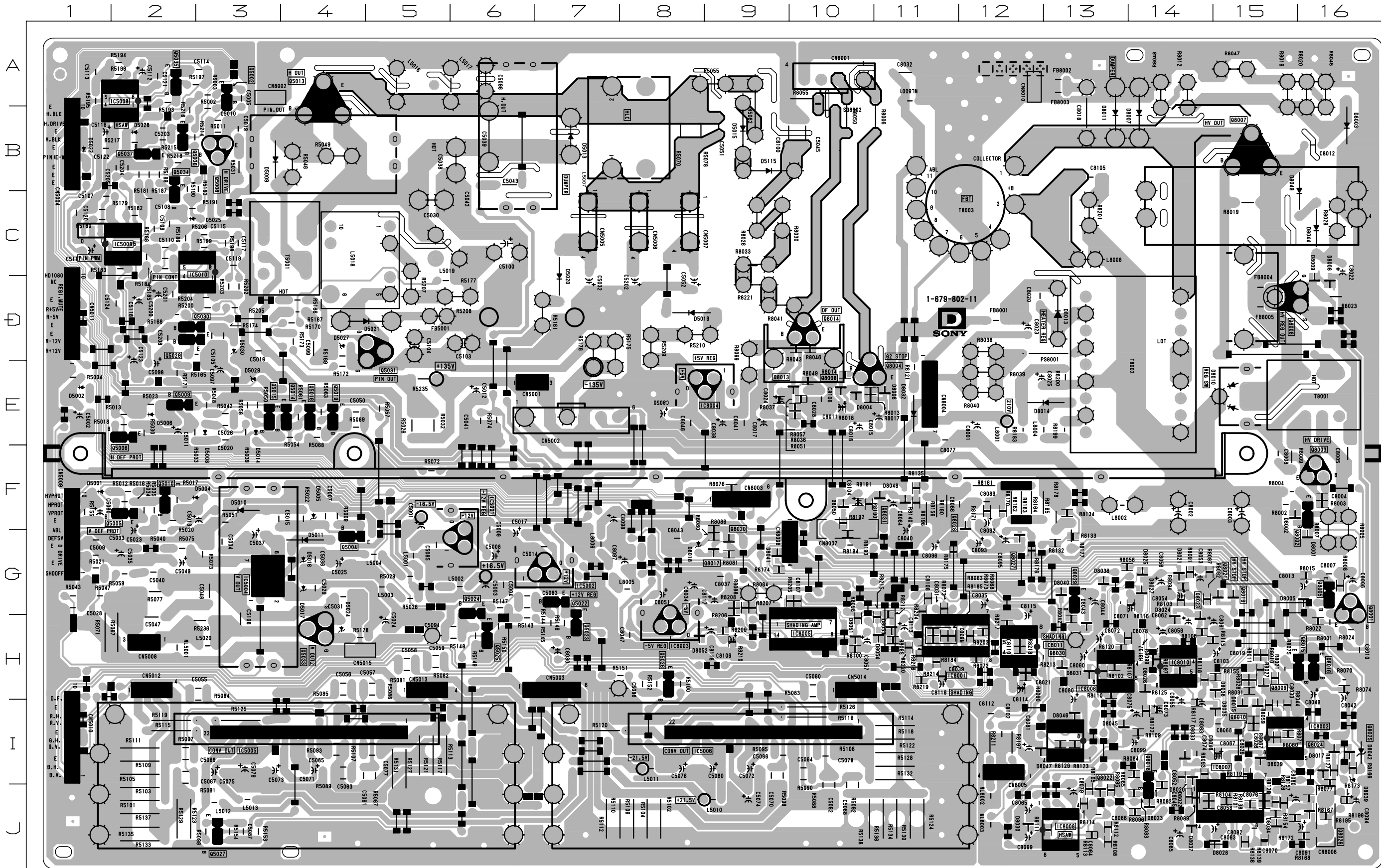
HC [IR DETECTOR]

– HC Board –





– D Board –



D BOARD

DIODE		TRANSISTOR		IC	
D5001	F-1	Q5002	A-3	IC5001	G-6
D5002	E-1	Q5004	G-4	IC5002	G-7
D5004	F-3	Q5005	F-2	IC5004	G-3
D5005	F-4	Q5006	E-2	IC5005	I-3
D5006	E-2	Q5008	B-3	IC5006	I-9
D5008	E-3	Q5009	E-2	IC5008	C-2
D5009	B-2	Q5010	F-2	IC5009	A-2
D5010	F-3	Q5013	A-4	IC5010	C-3
D5011	G-4	Q5014	E-4	IC8001	H-11
D5013	B-7	Q5015	E-3	IC8002	I-15
D5014	E-3	Q5016	E-4	IC8003	H-8
D5015	B-9	Q5019	E-4	IC8004	E-9
D5016	G-4	Q5022	G-7	IC8005	H-10
D5017	G-4	Q5023	H-7	IC8006	H-13
D5019	D-8	Q5024	G-6	IC8007	J-15
D5020	C-7	Q5025	H-6	IC8008	J-13
D5021	D-5	Q5026	H-8	IC8009	I-13
D5022	B-1	Q5027	J-3	IC8010	H-14
D5024	H-4	Q5029	D-2	IC8011	H-12
D5025	C-2	Q5030	D-2		
D5027	D-4	Q5031	D-5		
D5028	B-2	Q5033	H-4		
D5115	B-9	Q5034	B-2		
D8001	G-16	Q5035	A-2		
D8002	F-16	Q5036	B-2		
D8003	B-16	Q5037	B-2		
D8004	E-10				
D8005	G-16				
D8006	E-11				
D8007	B-14				
D8008	D-16				
D8009	D-16				
D8010	E-15				
D8011	B-13				
D8013	D-13				
D8014	E-13				
D8015	I-15				
D8017	I-16				
D8018	G-8				
D8021	G-14				
D8023	J-14				
D8024	H-14				
D8025	G-14				
D8026	H-14				
D8027	G-14				
D8029	I-15				
D8030	J-12				
D8031	H-13				
D8032	E-11				
D8033	I-14				
D8034	J-15				
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D8037	J-14				
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D8040	G-13				
D8041	G-9				
D8042	I-16				
D8043	H-13				
D8044	C-16				
D8045	I-13				
D8046	I-13				
D8047	I-12				
D8048	F-11				
D8049	C-16				
D8050	F-10				
D8051	H-10				
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Q8005	G-16				
Q8006	E-10				
Q8007	B-15				
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Q8010	I-15				
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Q8015	H-16				
Q8016	H-16				
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Q8025	I-16				
Q8026	J-16				
Q8027	G-12				
Q8028	F-12				
Q8029	G-13				
Q8030	H-13				
Q8031	F-11				

1 2 3 4 5 6 7 8

J2602 VAR/FIXED RIGHT

J2601 VAR/FIXED LEFT

TB2601 EXT. CENTER SP IN

1-875-029-12

SONY

DIP

IC2301 VARIABLE OUT AMP

IC2302 LEFT/RIGHT TONE CONTROLLER

IC2303 CENTER/SURROUND TONE CONTROLLER

IC2304 DECODER

IC2305 FRONT AMP

IC2306 REAR AMP

IC2307

IC2308

IC2309

IC2310

IC2311

IC2312

IC2313

IC2314

IC2315

IC2316

IC2317

IC2318

IC2319

IC2320

IC2321

IC2322

IC2323

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IC2641

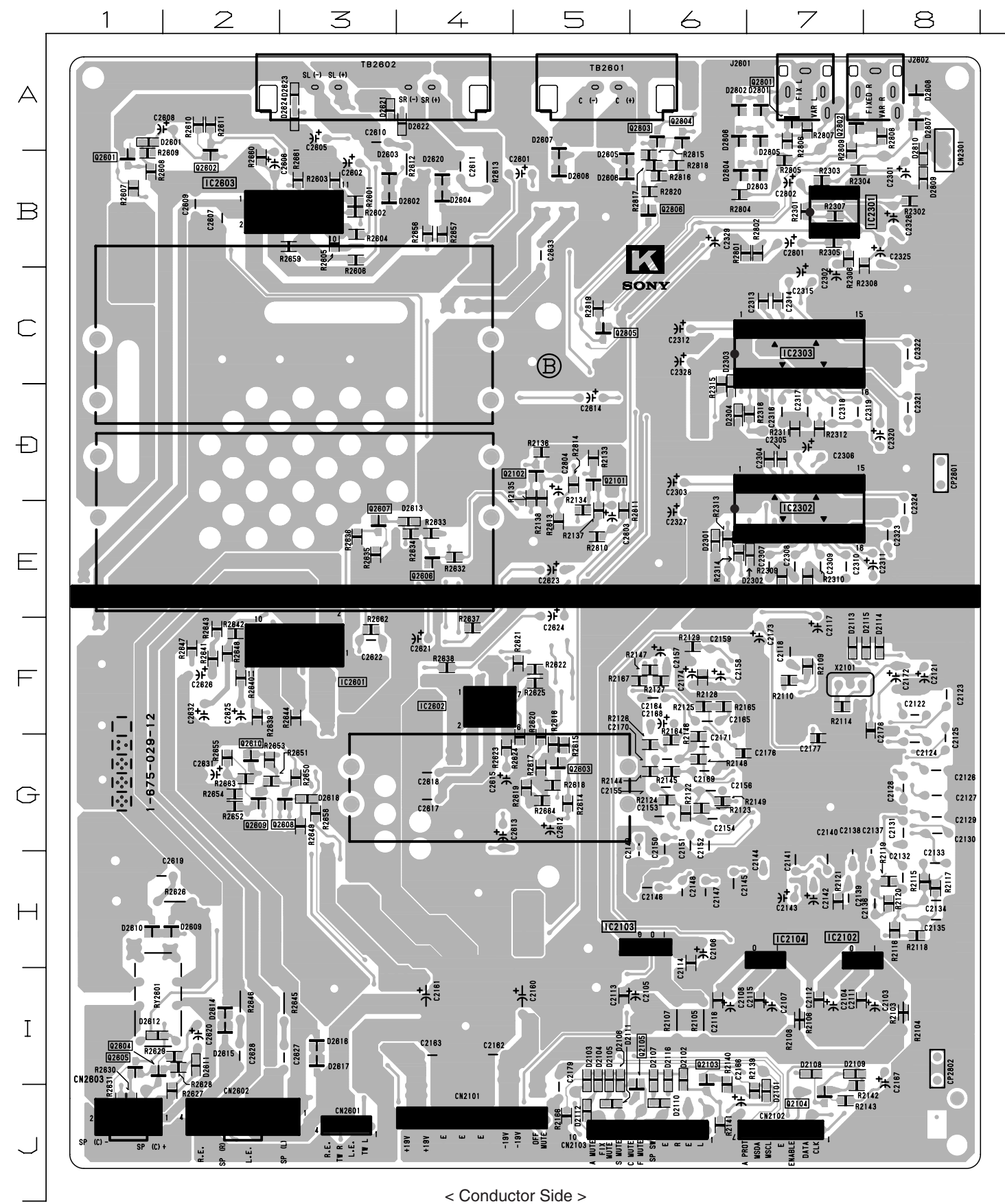
IC2642

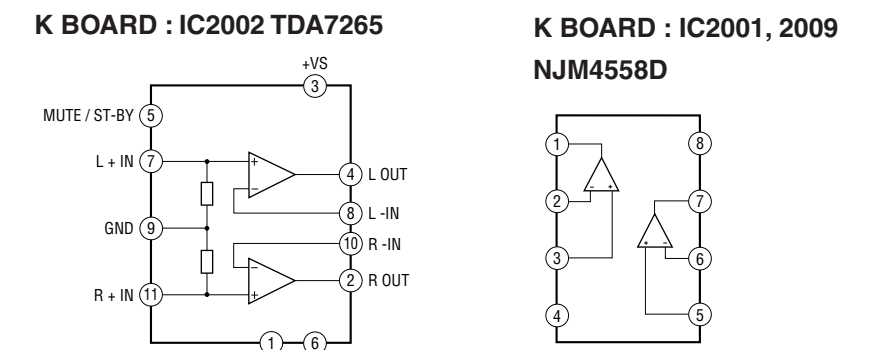
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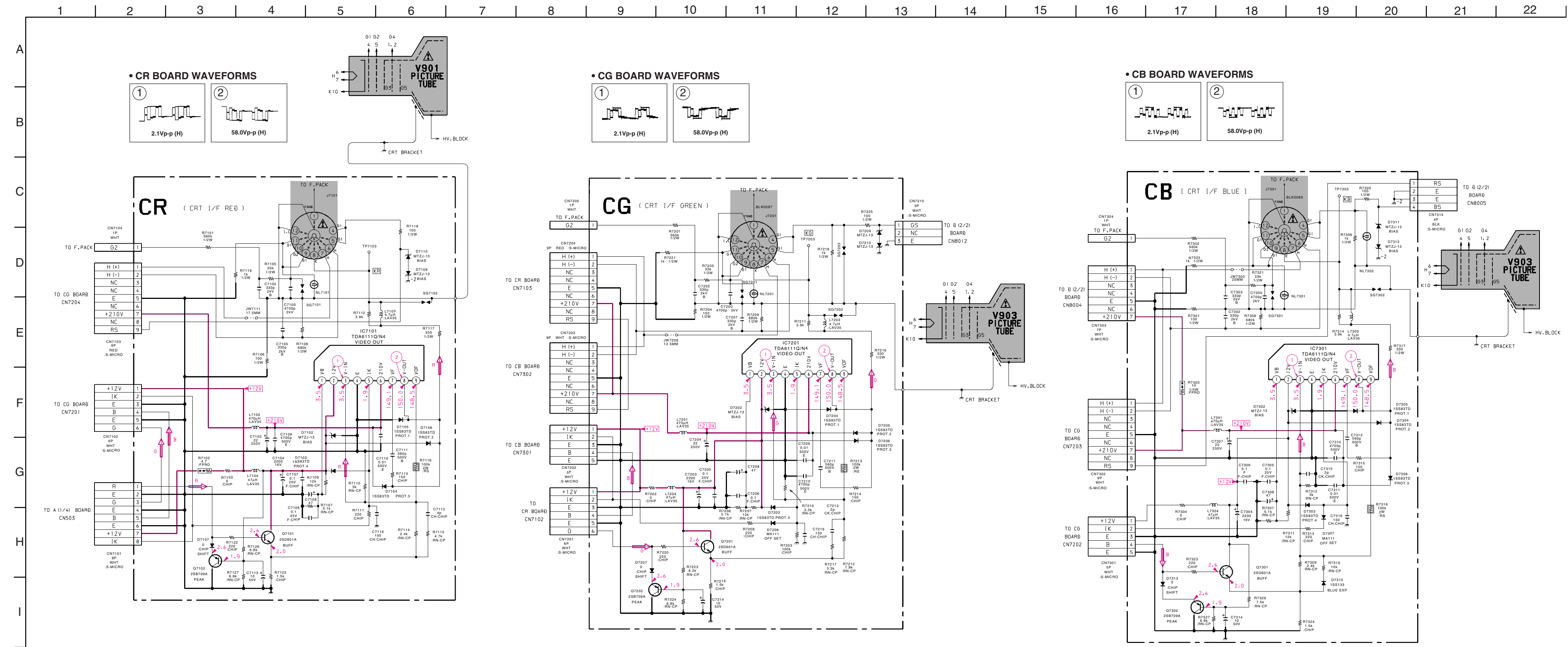
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IC2645

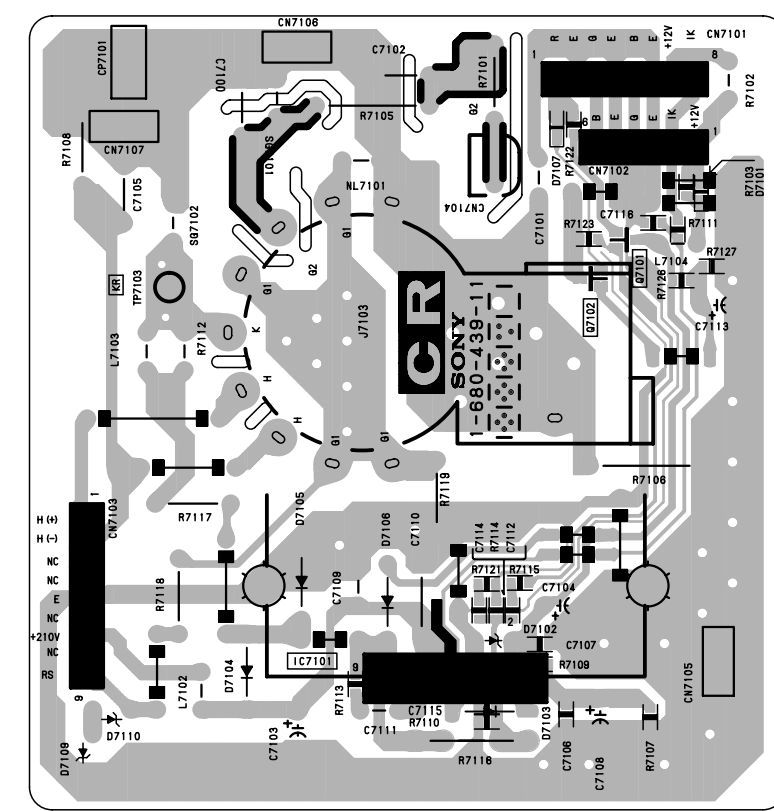
IC264



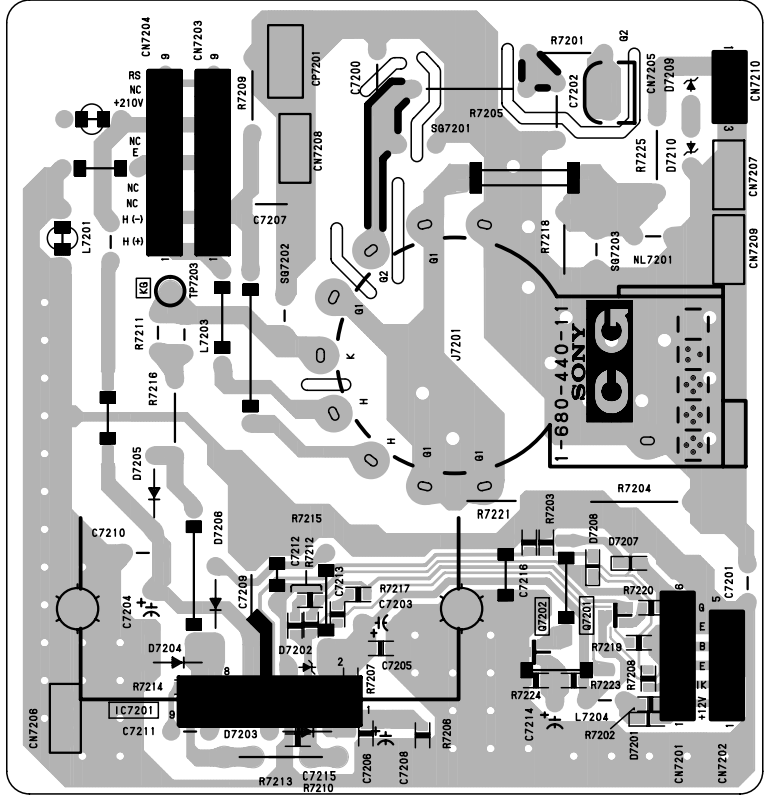




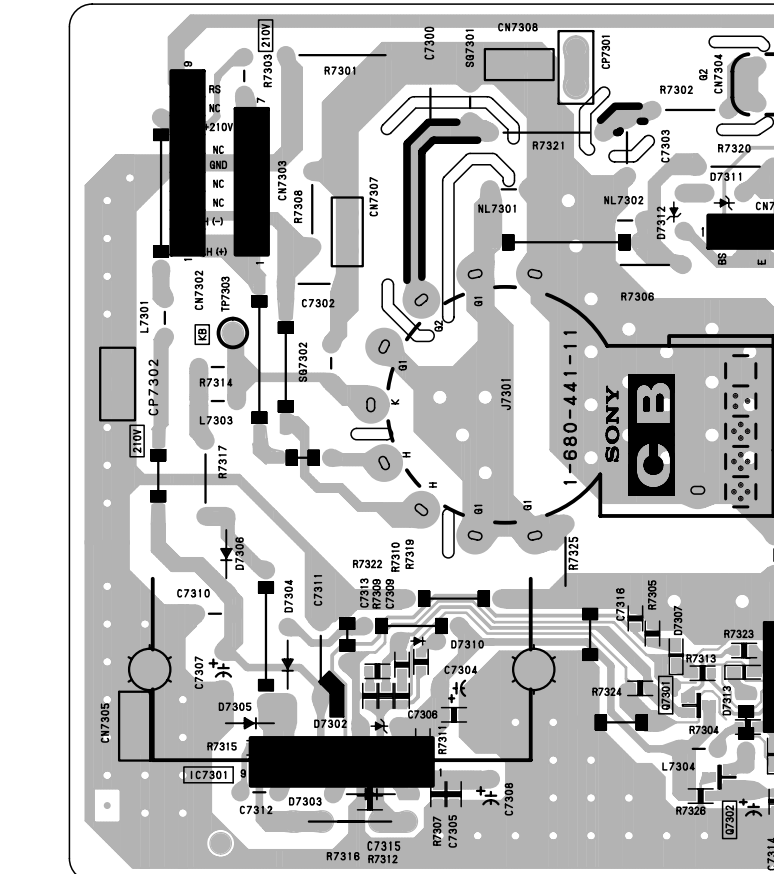
- CR Board -

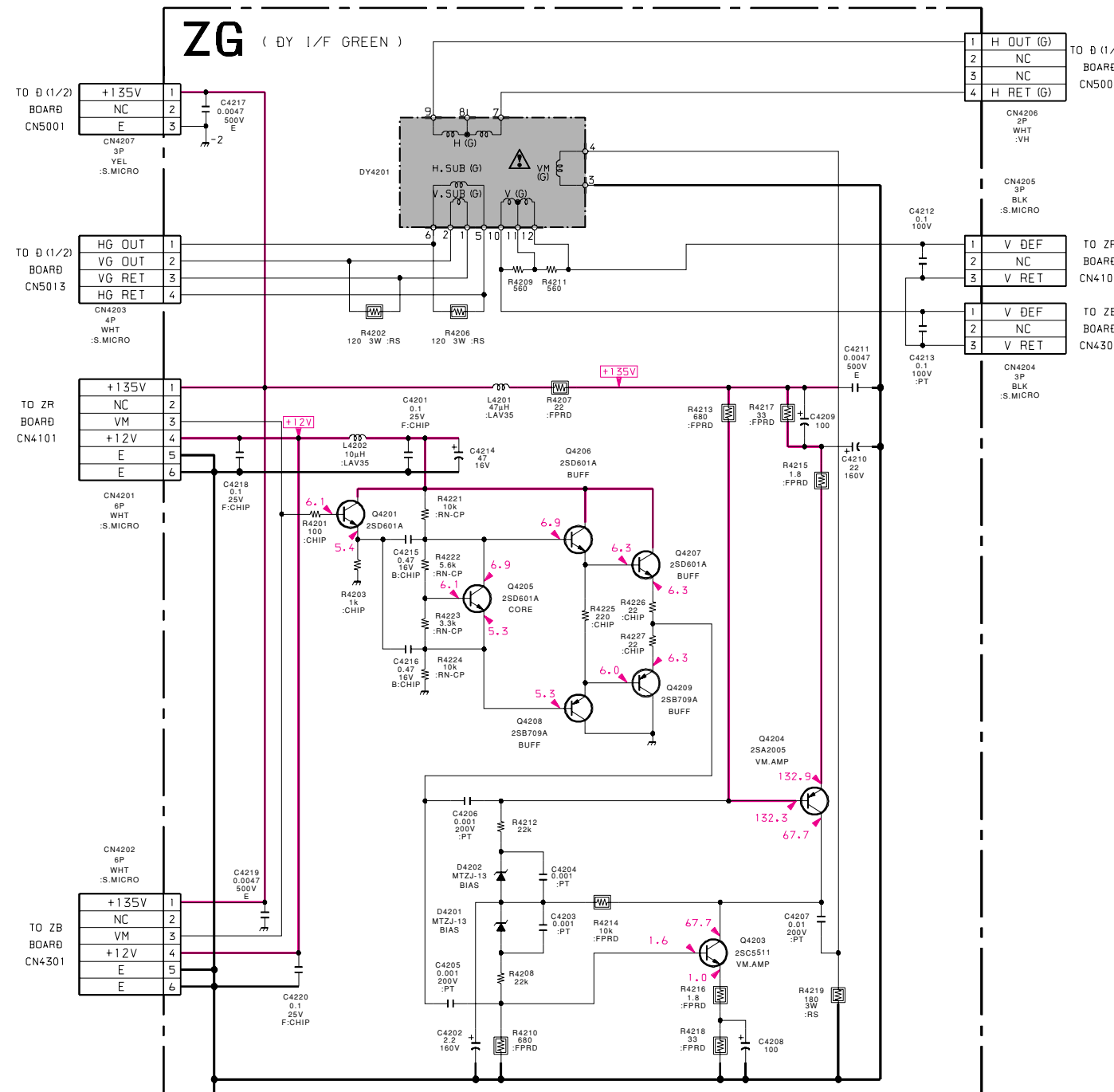


- CG Board -



- CB Board -





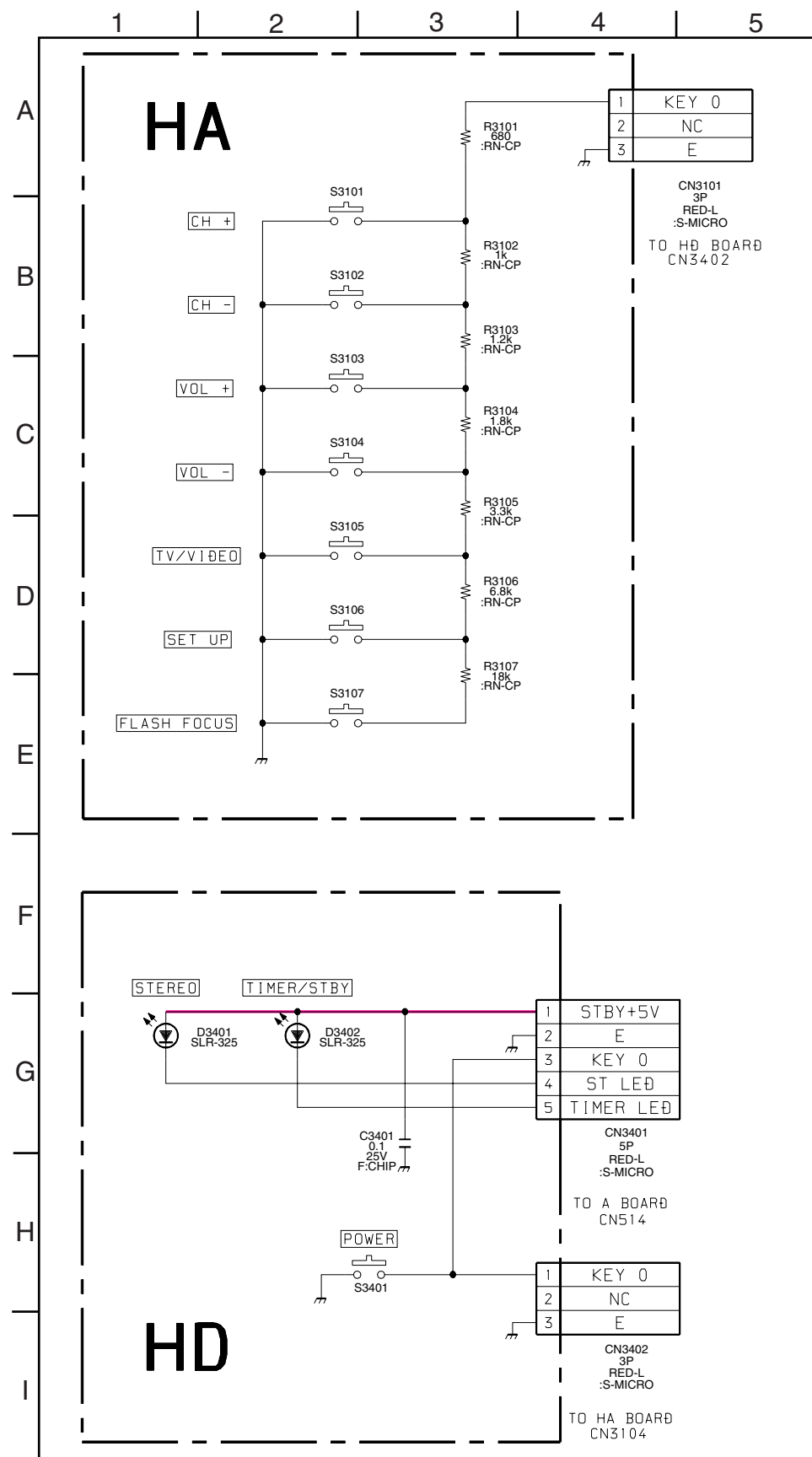
ZR [DY I/F RED] **ZG** [DY I/F GREEN]

The diagram shows a complex printed circuit board (PCB) layout for a Sony ZG camera module. Key components and labels include:

- Top Section:** Contains several integrated circuits (ICs) such as CN4204, CN4207, and CN4210, along with resistors (R4208, R4202) and capacitors (C4213).
- Left Side:** Features a large Sony ZG logo and the reference number 1-680-442-11. Below it are two circular connectors or ports.
- Center Area:** Includes a central IC (CN4207) surrounded by various passive components like resistors (R4219, R4218, R4214, R4208, R4201) and capacitors (C4207, C4203, C4205, C4208, C4212, C4206, C4204, C4202, C4211, C4208).
- Bottom Section:** Shows another set of ICs (CN4202, CN4207, CN4215, CN4220) and more passive components (L4202, C4210, C4218, C4210, C4208, C4212, C4206, C4204, C4202, C4211, C4208).
- Right Side:** Includes a vertical stack of components (H-SUB DEF, H-SUB DEF, H-H SUB RET, H-H SUB RET) and a series of connectors or pins labeled V+ and V-.

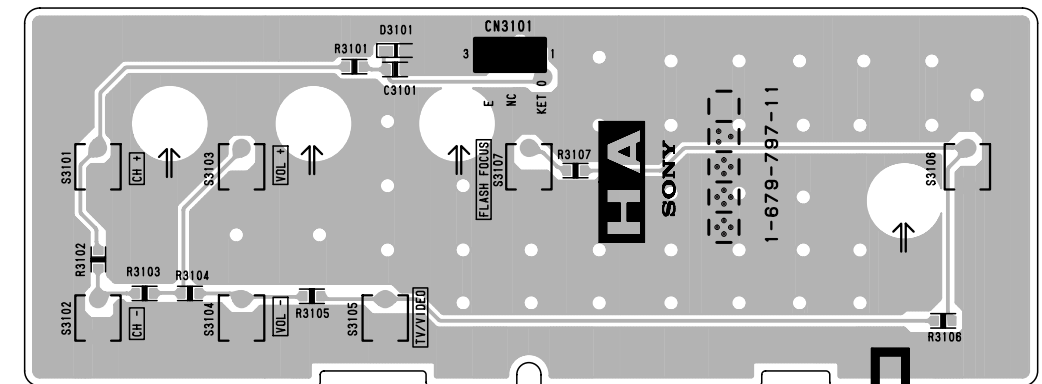
The layout is densely packed with components and intricate trace patterns connecting them across the board.

- 161 -

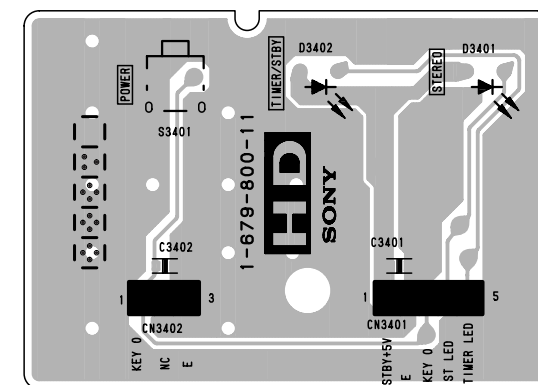


HA [USER CONTROL] **HD** [POWER SWITCH]

– HA Board –

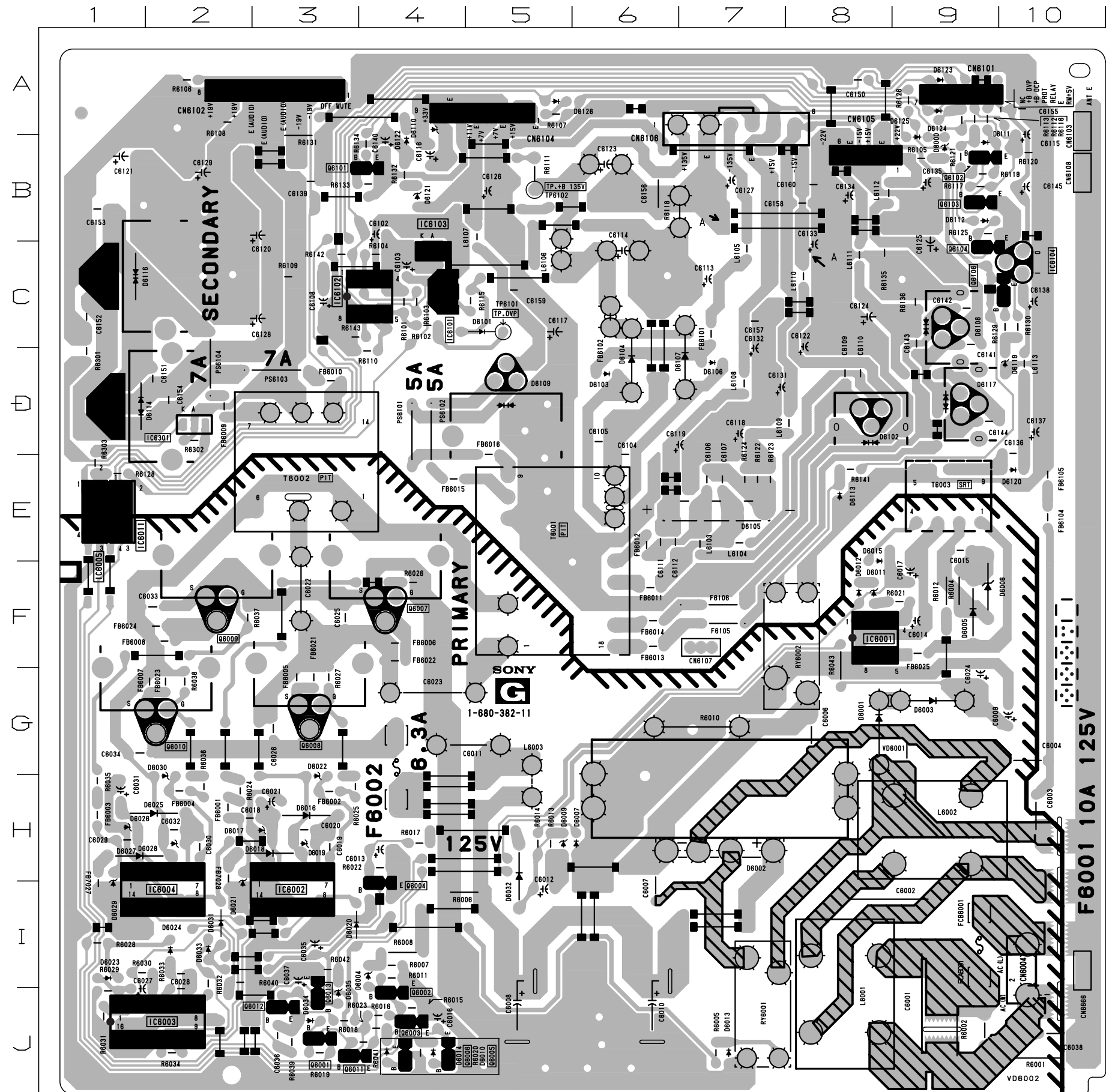


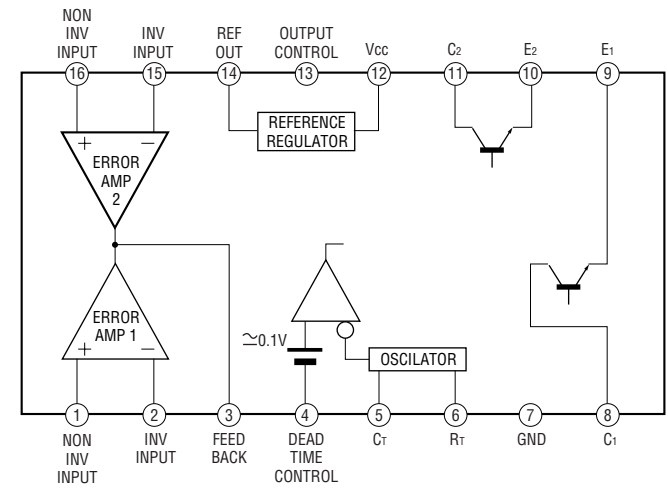
– HD Board –



G BOARD

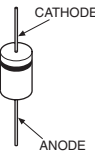
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D6001	G-8	D6112	B-9
D6002	H-7	D6113	E-8
D6003	G-9	D6114	D-1
D6004	I-2	D6116	C-1
D6005	F-9	D6117	D-9
D6006	F-9	D6119	D-10
D6007	H-6	D6120	E-10
D6009	H-5	D6121	B-4
D6010	J-4	D6122	B-4
D6011	F-8	D6123	A-9
D6012	F-8	D6124	A-9
D6013	J-7	D6125	B-9
D6014	J-4	D6127	B-9
D6015	E-8	TRANSISTOR	
D6016	H-3	Q6001	J-3
D6017	H-3	Q6002	J-4
D6018	H-3	Q6003	J-2
D6019	H-3	Q6004	I-4
D6020	I-3	Q6005	J-4
D6021	H-2	Q6006	J-4
D6022	G-3	Q6007	F-4
D6023	A-9	Q6008	G-3
D6024	A-9	Q6009	F-2
D6025	H-2	Q6010	G-2
D6026	H-1	Q6011	J-3
D6027	H-2	Q6012	J-3
D6028	H-2	Q6013	J-3
D6029	I-1	Q6101	B-4
D6030	H-2	Q6102	B-9
D6031	I-2	Q6103	B-9
D6032	H-5	Q6104	C-9
D6033	I-2	Q6106	C-10
D6034	J-3	IC	
D6035	J-3	IC6001	F-8
D6101	C-5	IC6002	I-3
D6102	D-8	IC6003	J-2
D6103	D-6	IC6004	I-2
D6104	D-6	IC6005	E-1
D6105	E-7	IC6011	E-1
D6106	D-7	IC6101	C-4
D6107	D-7	IC6102	C-4
D6108	C-9	IC6103	C-4
D6109	D-5	IC6104	C-10
D6110	A-4	IC6301	D-2



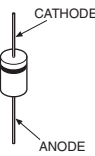


6-5. SEMICONDUCTORS

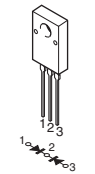
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D1NL40-TR2
GP08DPKG23
HZT33-02TE
P6KE200AG23
RGP02-20EL-6394
RGP10GPKG23
RGP15GPKG23
S2L40F
UF4005PKG23



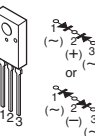
1SS133T-77
ERC04-06S
ERC04-06SE
ERC06-15STP11
ERC91-02
ERC91-02E



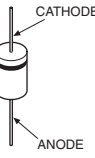
D10SC6M-4012



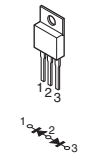
D10SC6MR
D8LC20U-4015



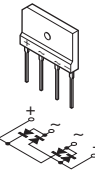
D1NL20U-TR



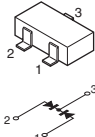
D25SC6MF04
D25SC6MRF04



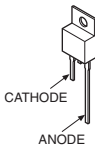
D4SBS4-F
RBV-1506



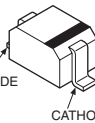
DAN202K-T-146



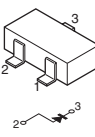
ERD08M-15



MA111-TX
MA113-(TX)
UDZ-TE-17-10B
UDZ-TE-17-3.9B
UDZ-TE-17-33B
UDZ-TE-17-5.1B
UDZ-TE-17-5.6B
UDZ-TE-17-7.5B



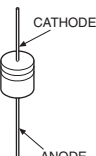
MA3033L-TX
MA3051M-TX
MA3091-TX
MA3130H-TX
MA3150H-TX
MA3220M-TX



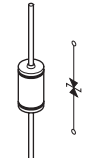
MTZJ-T-77-12B
MTZJ-T-77-13
MTZJ-T-77-15
MTZJ-T-77-20C
MTZJ-T-77-24A
MTZJ-T-77-3.9
MTZJ-T-77-33B
MTZJ-T-77-33C
MTZJ-T-77-5.6



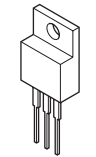
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MTZJ-T-77-7.5B
MTZJ-T-77-9.1A
MTZN-T-77-10



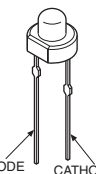
RD9.1EW-T1



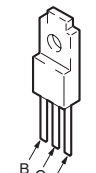
SF10SC3L



SLR-325VCT31



BA05T



CA0007AM
NJM2058M-TE2
SN74HC00ANSR
SN74HC05ANSR
TC74HC163AF(EL)
TC74HC32AF(EL)
TC74HC74AF(EL)
TLC2932IPW-E20



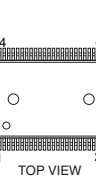
CM0006CF



CXA2019AQ-T4



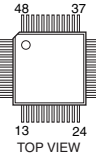
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CXD2303AQ-TL



CXA2119M-T6



CXD2018Q-T6



CXD2079Q
CXD2090Q



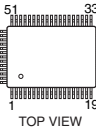
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MC74HC4052FEL
MC74HC4053AFEL
PCM56P-L
TC74HC123AF(EL)
TC74HC157FT
TC74HC4052AF(EL)
TC74HC4538AF(EL)



CXD2087Q



CXP85840A-025Q
MB90091A-150



IR2112
NJM2058D
NJM2058D



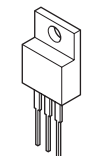
IR3M02



LA7856



LM2940CT-5.0
MC7805CT
MC7812CT
NJM7812FA
PQ09RF21



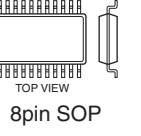
LM393D
LM393PS-E20
LM393PS-E20
NJM4558M-T2



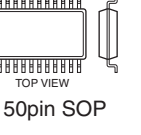
LM358P
LM393P
NJM4558D
TOP209P
UPC393C



M24C02-MN6T
M24C08-MN6T
NJM2533M(TE2)
ST24E16FM6TR
TC7W53FU
TC7W66FU(TE12R)
UPC4570G2-E2



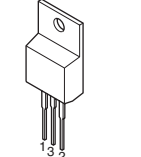
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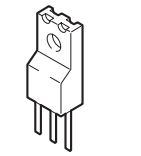
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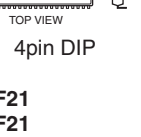
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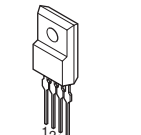
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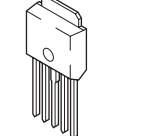
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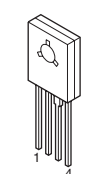
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PQ09RF21



PQ20VZ1U



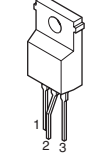
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PQ30RV21



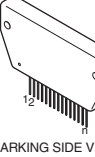
PST9143NL
TC7SET08FU(TE85L)



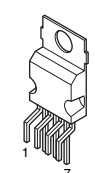
SE-135N-LF12



STK392-020



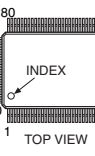
STV9379



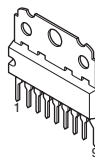
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TC7W08FU(TE12R)



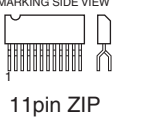
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UPD64081BGF-3BA



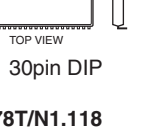
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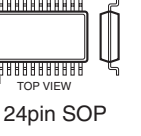
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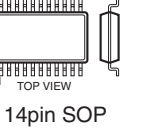
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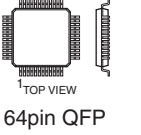
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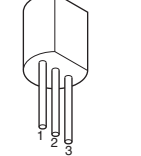
TLC2933IPWR



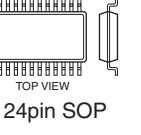
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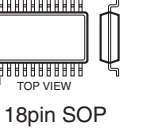
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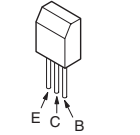
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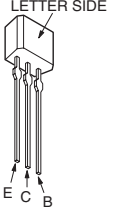
Z8613012SSC



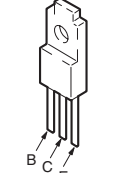
2SA1221-T-M
2SB734-T-2
2SB734-T-4
2SD774-T-34



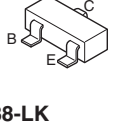
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2SC3311A-QRSTA



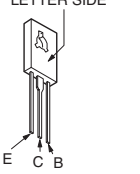
2SA2005
2SC5511



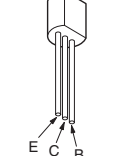
2SA1226-T1E3E4
2SB709A-QRS-TX
2SD601A-QRS-TX
DTA144EKA-T146
DTC114EKA-T146
DTC144EKA-T146



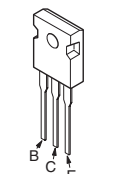
2SC2688-LK



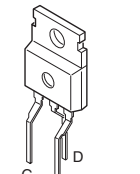
2SC2878AB-TPE2



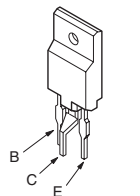
2SC3997S-SONY-YB



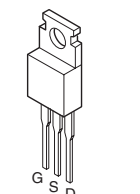
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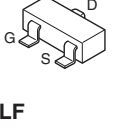
2SC4632LS-CB7



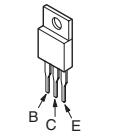
2SK2251-01-F19



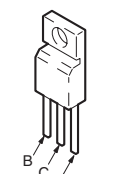
2SK3018-T106



IRFI640LF



IRFI644G-LF36

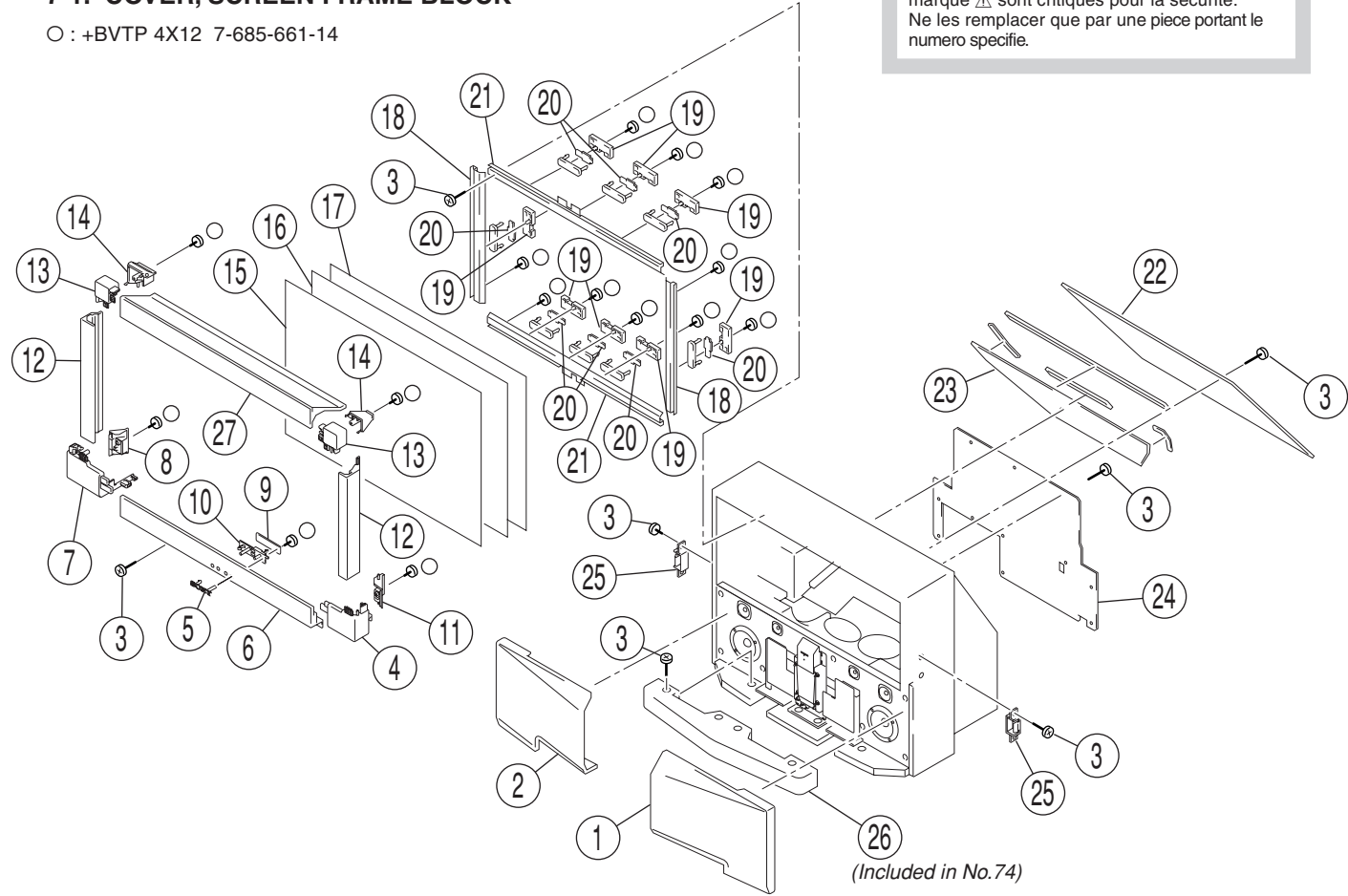


NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

7-1. COVER, SCREEN FRAME BLOCK

○ : +BVTP 4X12 7-685-661-14



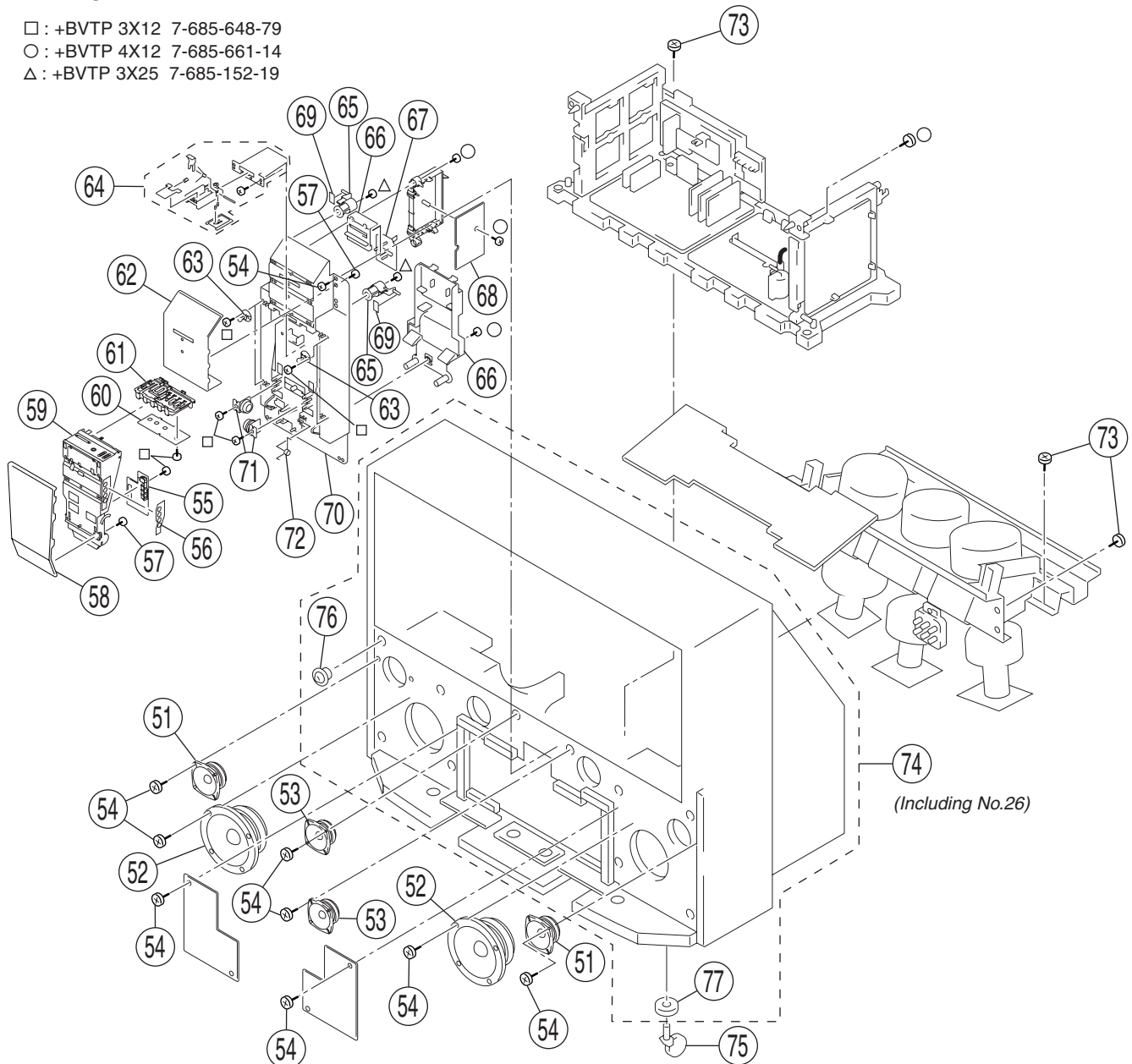
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4038-511-1	GRILLE (R) ASSY, SPEAKER (57XBR10W)		15	4-076-307-11	SCREEN (65W), CONTRAST (65XBR10W)	
1	X-4038-513-1	GRILLE (R) ASSY, SPEAKER (65XBR10W)		16	4-076-305-11	PLATE (65WL), DIFFUSION (65XBR10W)	
2	X-4038-510-1	GRILLE (L) ASSY, SPEAKER (57XBR10W)		16	4-076-308-11	PLATE (57WL), DIFFUSION (57XBR10W)	
2	X-4038-512-1	GRILLE (L) ASSY, SPEAKER (65XBR10W)		17	4-076-306-11	PLATE (65WF), DIFFUSION (65XBR10W)	
3	4-378-522-31	SCREW (4X20), TAPPING		17	4-076-309-11	PLATE (57WF), DIFFUSION (57XBR10W)	
4	4-076-882-01	BLOCK (R), CORNER		18	* 4-080-430-01	HOLDER (S), SCREEN	
5	4-076-802-01	EMBLEM, SONY NO.10		19	* 4-069-680-01	BRACKET (B), SENSOR	
6	4-076-880-01	FRAME LW, SCREEN (65XBR10W)		20	* A-1390-933-A	S BOARD, COMPLETE	
6	4-076-880-11	FRAME LW, SCREEN (57XBR10W)		21	* 4-080-429-01	HOLDER (L), SCREEN	
7	4-076-883-01	BLOCK (L), CORNER		22	* 4-080-436-01	BOARD (57), MIRROR (57XBR10W)	
8	4-076-886-01	COVER (L), CORNER (65XBR10W)		22	* 4-080-442-01	BOARD (65), MIRROR (65XBR10W)	
8	4-079-341-01	COVER (L), CORNER BLOCK (57XBR10W)		23	4-079-954-01	MIRROR (57) (57XBR10W)	
9	* A-1372-900-A	HC BOARD, COMPLETE		23	4-079-955-01	MIRROR (65) (65XBR10W)	
10	* 4-076-887-01	BRACKET, HC		24	* 4-080-434-01	BOARD, REAR (57XBR10W)	
11	4-076-885-01	COVER (R), CORNER (65XBR10W)		24	* 4-080-440-01	BOARD (65), REAR (65XBR10W)	
11	4-079-342-01	COVER (R), CORNER BLOCK (57XBR10W)		25	4-076-877-01	CATCHER, FRAME	
12	4-076-879-01	FRAME SD, SCREEN (65XBR10W)		26	* 4-080-433-01	SKIRT (57), FRONT (57XBR10W)	
12	4-076-879-11	FRAME SD, SCREEN (57XBR10W)		26	* 4-080-439-01	SKIRT (65), FRONT (65XBR10W)	
13	4-076-881-01	BLOCK (U), CORNER		27	4-076-878-01	FRAME (U), SCREEN (65XBR10W)	
14	4-076-884-01	COVER (U), CORNER BLOCK		27	4-076-878-11	FRAME (U), SCREEN (57XBR10W)	

The components identified by shading and mark are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-2. CABINET

□ : +BVTP 3X12 7-685-648-79
○ : +BVTP 4X12 7-685-661-14
△ : +BVTP 3X25 7-685-152-19



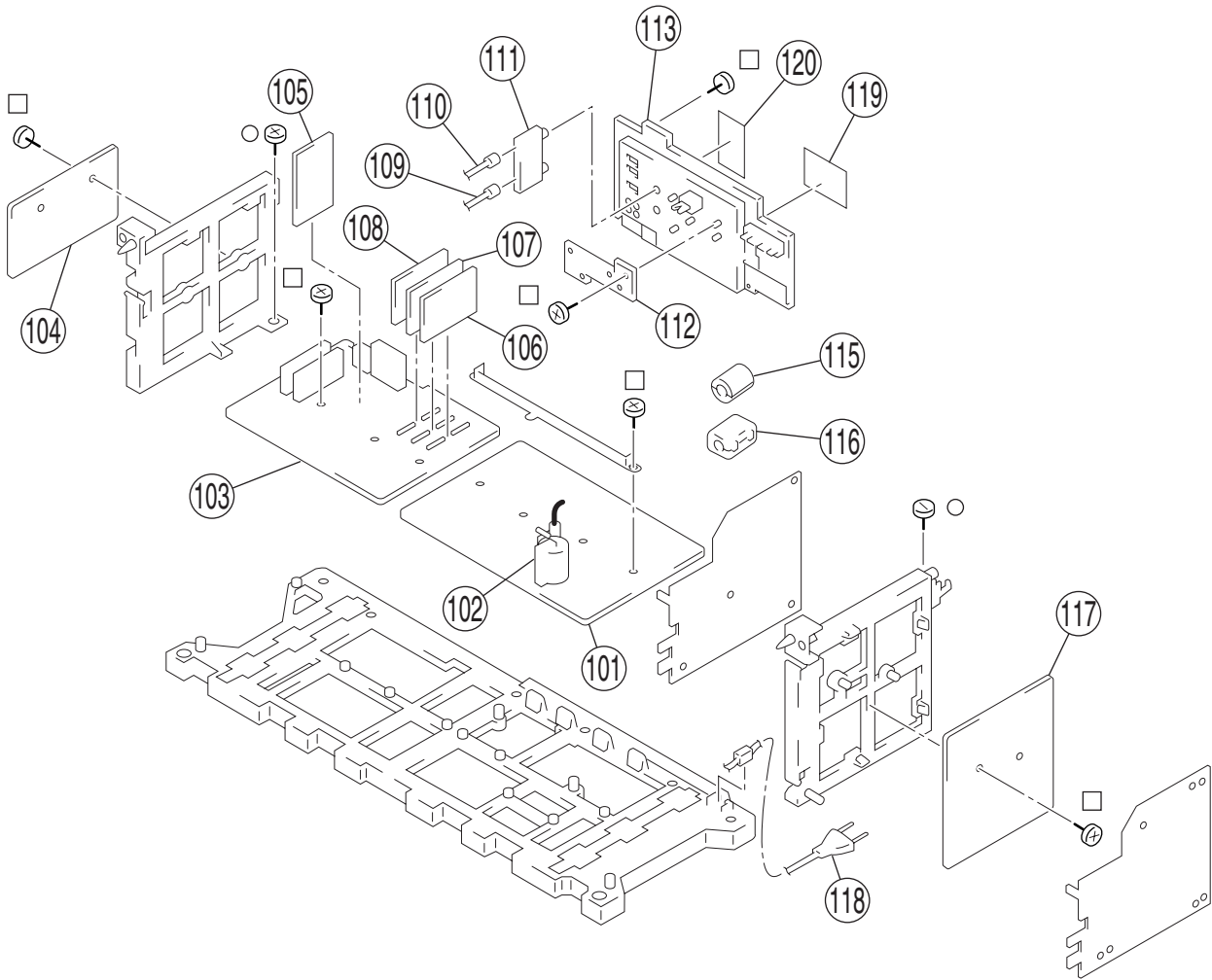
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	1-529-832-11	SPEAKER (10CM COAXIAL)		66	4-079-343-01	BUTTON, POWER	
52	1-529-831-11	SPEAKER (16CM)		67	* 4-076-899-01	GUIDE, LED	
53	1-529-830-11	SPEAKER (10CM)		68	* A-1372-899-A	HD BOARD, COMPLETE	
54	4-378-522-31	SCREW (4X20), TAPPING		69	* 4-080-583-01	CUSHION, DOOR	
55	* A-1372-898-A	HB BOARD, COMPLETE		70	* 4-076-902-01	BRACKET, CONTROL (65) (65XBR10W)	
56	4-077-632-01	LABEL, FRONT TERMINAL		70	* 4-076-905-01	BRACKET, CONTROL (57) (57XBR10W)	
57	3-701-809-21	SCREW, TERMINAL (M3X6)		71	4-919-393-41	DAMPER	
58	4-077-631-01	PANEL, DOOR		72	* 4-077-628-01	SPRING, DOOR	
59	4-076-896-01	BRACKET, DOOR		73	4-052-894-01	SCREW (4X20), HEAD TAPPING	
60	* A-1372-897-A	HA BOARD, COMPLETE		74	* X-4038-435-1	CABINET (57) ASSY (57XBR10W)	26,77,78
61	4-076-898-01	BUTTON, MULTI		74	* X-4038-436-1	CABINET (65) ASSY (65XBR10W)	26,77,78
62	4-077-629-01	PANEL, CONTROL (65XBR10W)		75	4-040-508-01	CASTER	
62	4-077-633-01	PANEL, CONTROL (57XBR10W)		76	* 4-076-903-01	COVER, SCREW	
63	4-054-709-01	STRIKE		77	4-030-850-01	SOCKET, CASTER	
64	4-076-904-01	PUSH CATCH		78	4-063-421-02	LATCH (K)	
65	4-077-630-01	STOPPER (U), DOOR					

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

7-3. CHASSIS

-  : +BVTP 3X12 7-685-648-79
-  : +BVTP 4X12 7-685-661-14



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	* A-1346-994-A	D BOARD, COMPLETE		111	1-251-321-12	SELECTOR, ANTENNA	
102	 1-453-285-11	FBT ASSY, NX4006		112	* A-1373-761-A	U BOARD, COMPLETE	
103	* A-1299-347-A	A BOARD, COMPLETE		113	4-065-812-21	TERMINAL BOARD (ASSY)	
104	* A-1380-643-A	K BOARD, COMPLETE		115	1-543-653-11	CORE ASSY, BEAD(DIVISION TYPE)	
105	* A-1131-461-A	BA BOARD, COMPLETE		116	1-500-021-11	CLAMP, SLEEVE FERRITE	
106	* A-1131-650-A	BD BOARD, COMPLETE		117	* A-1316-552-A	G BOARD, COMPLETE	
107	* A-1131-649-A	BR BOARD, COMPLETE		118	 1-783-595-11	CORD, NOISE FILTER WITH POWER	
108	* A-1131-648-A	BM BOARD, COMPLETE		119	4-071-136-01	LABEL (A), TERMINAL	
109	* 1-557-056-31	CABLE, P-P		120	4-063-425-11	LABEL (B), TERMINAL	
110	* 1-556-945-21	CABLE, P-P					

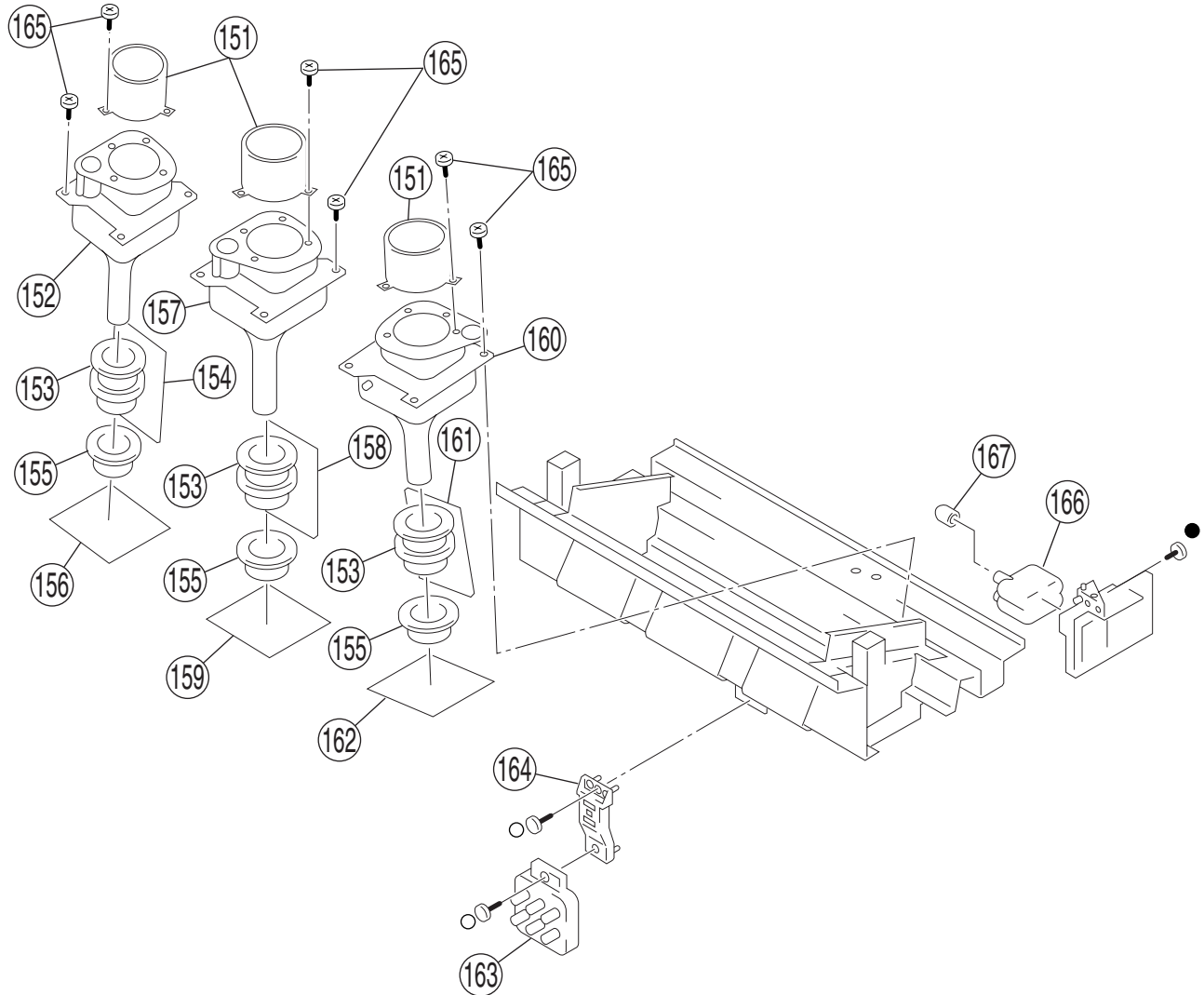
Les composants identifiés par une trame et une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark $\triangle$ are critical for safety. Replace only with part number specified.

7-4. PICTURE TUBE

● : +BVTP 3X16 7-685-650-79

○ : +BVTP 3X12 7-685-661-14



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
151	4-065-715-11	LENS (DELTA 37.AB)		159	* A-1332-143-A	CG BOARD, COMPLETE	
152	$\triangle$ 8-736-091-05	CRT 07MZC4(R) (57XBR10W)		160	$\triangle$ 8-736-090-05	CRT 07MZC4(B) (57XBR10W)	
152	$\triangle$ 8-733-603-25	CRT 07MZC5(R) (65XBR10W)		160	$\triangle$ 8-733-602-25	CRT 07MZC5(B) (65XBR10W)	
153	$\triangle$ 1-451-492-11	DEFLECTION YOKE		161	* A-1391-098-A	ZB BOARD, COMPLETE	
154	* A-1391-096-A	ZR BOARD, COMPLETE		162	* A-1332-144-A	CB BOARD, COMPLETE	
155	$\triangle$ 1-452-790-21	NECK ASSY		163	$\triangle$ 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE)	
156	* A-1332-142-A	CR BOARD, COMPLETE		164	* 4-063-403-01	BRACKET, FOCUS PACK	
157	$\triangle$ 8-736-087-15	CRT 07MZC2(G) (57XBR10W)		165	4-052-894-01	SCREW (4X20), HEAD TAPPING	
157	$\triangle$ 8-733-601-25	CRT 07MZC5(G) (65XBR10W)		166	$\triangle$ 8-598-955-13	BLOCK ASSY, HV HVB-1030	
158	* A-1391-097-A	ZG BOARD, COMPLETE		167	4-373-137-01	CAP (Z), RUBBER	



SECTION 8 ELECTRICAL PARTS LIST

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- The components identified by in Δ this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- CAPACITORS
PF : $\mu\mu$ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

RESISTORS

- All resistors are in ohms
- F : nonflammable

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1391-096-A ZR BOARD, COMPLETE *****				<COIL>			
4-382-854-11	SCREW (M3X10), P, SW (+)			L4101	1-414-183-41	INDUCTOR 10 μ H	
				L4102	1-414-187-11	INDUCTOR 47 μ H	
<CAPACITOR>				<TRANSISTOR>			
C4101	1-163-038-11	CERAMIC CHIP 0.1 μ F	25V	Q4101	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
C4102	1-104-664-11	ELECT 47 μ F	20% 16V	Q4104	8-729-045-04	TRANSISTOR 2SC5511	
C4103	1-107-667-11	ELECT 2.2 μ F	20% 160V	Q4105	8-729-045-05	TRANSISTOR 2SA2005	
C4104	1-130-471-00	MYLAR 0.001 μ F	5% 50V	Q4106	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
C4105	1-130-471-00	MYLAR 0.001 μ F	5% 50V	Q4107	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
C4106	1-104-987-11	MYLAR 0.001 μ F	10% 200V	Q4108	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
C4107	1-104-987-11	MYLAR 0.001 μ F	10% 200V	Q4109	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
C4108	1-107-364-11	MYLAR 0.01 μ F	10% 200V	Q4110	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
C4109	1-126-968-11	ELECT 100 μ F	20% 50V	<RESISTOR>			
C4110	1-107-645-11	ELECT 22 μ F	20% 160V	R4101	1-216-025-11	RES-CHIP 100	5% 1/10W
C4111	1-126-968-11	ELECT 100 μ F	20% 50V	R4102	1-208-800-11	METAL CHIP 5.6K	0.5% 1/10W
C4112	1-161-830-00	CERAMIC 0.0047 μ F	500V	R4103	1-208-794-11	METAL CHIP 3.3K	0.5% 1/10W
C4113	1-163-038-11	CERAMIC CHIP 0.1 μ F	25V	R4104	1-216-049-11	RES-CHIP 1K	5% 1/10W
C4114	1-161-830-00	CERAMIC 0.0047 μ F	500V	R4105	1-216-475-11	METAL OXIDE 120	5% 3W
C4115	1-107-823-11	CERAMIC CHIP 0.47 μ F	10% 16V	R4106	1-216-033-00	RES-CHIP 220	5% 1/10W
C4116	1-107-823-11	CERAMIC CHIP 0.47 μ F	10% 16V	R4107	1-216-475-11	METAL OXIDE 120	5% 3W
<CONNECTOR>				R4109	1-216-009-91	RES-CHIP 22	5% 1/10W
CN4101*	1-564-509-11	PLUG, CONNECTOR 6P		R4110	1-249-414-11	CARBON 560	5% 1/4W
CN4102*	1-564-506-11	PLUG, CONNECTOR 3P		R4111	1-249-433-11	CARBON 22K	5% 1/4W
CN4104*	1-564-507-11	PLUG, CONNECTOR 4P		R4113	1-249-429-11	CARBON 10K	5% 1/4W
CN4105*	1-564-506-11	PLUG, CONNECTOR 3P		R4114	1-249-414-11	CARBON 560	5% 1/4W
CN4107*	1-580-690-11	PIN, CONNECTOR (PC BOARD) 4P		R4115	1-249-433-11	CARBON 22K	5% 1/4W
<DIODE>				R4116	1-249-397-11	CARBON 22	5% 1/4W
D4102	8-719-921-86	DIODE MTZJ-T-77-13		R4117	1-249-415-11	CARBON 680	5% 1/4W
D4103	8-719-921-86	DIODE MTZJ-T-77-13		R4118	1-249-415-11	CARBON 680	5% 1/4W
<CONNECTOR>				R4119	1-249-384-11	CARBON 1.8	5% 1/4W
DY4101 Δ	1-451-492-11	DEFLECTION YOKE		R4120	1-249-384-11	CARBON 1.8	5% 1/4W
				R4121	1-249-399-11	CARBON 33	5% 1/4W
				R4122	1-249-399-11	CARBON 33	5% 1/4W
				R4123	1-216-476-11	METAL OXIDE 180	5% 3W
				R4124	1-208-806-11	METAL CHIP 10K	0.5% 1/10W
				R4125	1-208-806-11	METAL CHIP 10K	0.5% 1/10W

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KP-57XBR10W/65XBR10W
RM-Y907 RM-Y907

ZR ZG ZB

REF. NO.	PART NO.	DESCRIPTION	REMARK
R4126	1-216-009-91	RES-CHIP 22 5%	1/10W

* A-1391-097-A ZG BOARD, COMPLETE

4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

C4201	1-163-038-11	CERAMIC CHIP	0.1μF	25V
C4202	1-107-667-11	ELECT	2.2μF	20% 160V
C4203	1-130-471-00	MYLAR	0.001μF	5% 50V
C4204	1-130-471-00	MYLAR	0.001μF	5% 50V
C4205	1-104-987-11	MYLAR	0.001μF	10% 200V
C4206	1-104-987-11	MYLAR	0.001μF	10% 200V
C4207	1-107-364-11	MYLAR	0.01μF	10% 200V
C4208	1-126-968-11	ELECT	100μF	20% 50V
C4209	1-126-968-11	ELECT	100μF	20% 50V
C4210	1-107-645-11	ELECT	22μF	20% 160V
C4211	1-161-830-00	CERAMIC	0.0047μF	500V
C4212	1-106-220-00	MYLAR	0.1μF	10% 100V
C4213	1-106-220-00	MYLAR	0.1μF	10% 100V
C4214	1-104-664-11	ELECT	47μF	20% 16V
C4215	1-107-823-11	CERAMIC CHIP	0.47μF	10% 16V
C4216	1-107-823-11	CERAMIC CHIP	0.47μF	10% 16V
C4217	1-161-830-00	CERAMIC	0.0047μF	500V
C4218	1-163-038-11	CERAMIC CHIP	0.1μF	25V
C4219	1-161-830-00	CERAMIC	0.0047μF	500V
C4220	1-163-038-11	CERAMIC CHIP	0.1μF	25V

<CONNECTOR>

CN4201*	1-564-509-11	PLUG, CONNECTOR 6P
CN4202*	1-564-509-11	PLUG, CONNECTOR 6P
CN4203*	1-564-507-11	PLUG, CONNECTOR 4P
CN4204*	1-564-506-11	PLUG, CONNECTOR 3P
CN4205*	1-564-506-11	PLUG, CONNECTOR 3P

CN4206*	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P
CN4207*	1-564-506-11	PLUG, CONNECTOR 3P

<DIODE>

D4201	8-719-921-86	DIODE MTZJ-T-77-13
D4202	8-719-921-86	DIODE MTZJ-T-77-13

<CONNECTOR>

DY4201 Δ	1-451-492-11	DEFLECTION YOKE
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<COIL>

L4201	1-414-187-11	INDUCTOR	47μH
L4202	1-414-183-41	INDUCTOR	10μH

REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSISTOR>			

Q4201	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q4203	8-729-045-04	TRANSISTOR	2SC5511
Q4204	8-729-045-05	TRANSISTOR	2SA2005
Q4205	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q4206	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX

Q4207	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q4208	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q4209	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX

<RESISTOR>

R4201	1-216-025-11	RES-CHIP	100	5%	1/10W
R4202	1-216-475-11	METAL OXIDE	120	5%	3W
R4203	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4206	1-216-475-11	METAL OXIDE	120	5%	3W
R4207	1-249-397-11	CARBON	22	5%	1/4W
R4208	1-249-433-11	CARBON	22K	5%	1/4W
R4209	1-249-414-11	CARBON	560	5%	1/4W
R4210	1-249-415-11	CARBON	680	5%	1/4W
R4211	1-249-414-11	CARBON	560	5%	1/4W
R4212	1-249-433-11	CARBON	22K	5%	1/4W
R4213	1-249-415-11	CARBON	680	5%	1/4W
R4214	1-249-429-11	CARBON	10K	5%	1/4W
R4215	1-249-384-11	CARBON	1.8	5%	1/4W
R4216	1-249-384-11	CARBON	1.8	5%	1/4W
R4217	1-249-399-11	CARBON	33	5%	1/4W
R4218	1-249-399-11	CARBON	33	5%	1/4W
R4219	1-216-476-11	METAL OXIDE	180	5%	3W
R4221	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4222	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R4223	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R4224	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4225	1-216-033-00	RES-CHIP	220	5%	1/10W
R4226	1-216-009-91	RES-CHIP	22	5%	1/10W
R4227	1-216-009-91	RES-CHIP	22	5%	1/10W

* A-1391-098-A ZB BOARD, COMPLETE

4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

C4301	1-163-038-11	CERAMIC CHIP	0.1μF	25V
C4302	1-107-667-11	ELECT	2.2μF	20% 160V
C4303	1-130-471-00	MYLAR	0.001μF	5% 50V
C4304	1-130-471-00	MYLAR	0.001μF	5% 50V
C4305	1-104-987-11	MYLAR	0.001μF	10% 200V
C4306	1-104-987-11	MYLAR	0.001μF	10% 200V
C4307	1-107-364-11	MYLAR	0.01μF	10% 200V
C4308	1-126-968-11	ELECT	100μF	20% 50V
C4309	1-126-968-11	ELECT	100μF	20% 50V
C4310	1-107-645-11	ELECT	22μF	20% 160V

KP-57XBR10W/65XBR10W

RM-Y907

RM-Y907



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REF. NO.	PART NO.	DESCRIPTION	REMARK		
C4311	1-161-830-00	CERAMIC	0.0047μF		500V
C4312	1-104-664-11	ELECT	47μF	20%	16V
C4313	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C4314	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C4315	1-161-830-00	CERAMIC	0.0047μF		500V
C4316	1-163-038-11	CERAMIC CHIP	0.1μF		25V
<CONNECTOR>					
CN4301*	1-564-509-11	PLUG, CONNECTOR 6P			
CN4302*	1-564-507-11	PLUG, CONNECTOR 4P			
CN4303*	1-564-506-11	PLUG, CONNECTOR 3P			
CN4304*	1-580-690-11	PIN, CONNECTOR (PC BOARD) 4P			
CN4305*	1-564-506-11	PLUG, CONNECTOR 3P			
<DIODE>					
D4301	8-719-921-86	DIODE MTZJ-T-77-13			
D4302	8-719-921-86	DIODE MTZJ-T-77-13			
<CONNECTOR>					
DY4301△1-451-492-11 DEFLECTION YOKE					
<COIL>					
L4301	1-414-187-11	INDUCTOR	47μH		
L4302	1-414-183-41	INDUCTOR	10μH		
<TRANSISTOR>					
Q4301	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX		
Q4303	8-729-045-04	TRANSISTOR	2SC5511		
Q4304	8-729-045-05	TRANSISTOR	2SA2005		
Q4305	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX		
Q4306	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX		
Q4307	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX		
Q4308	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX		
Q4309	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX		
<RESISTOR>					
R4301	1-216-025-11	RES-CHIP	100	5%	1/10W
R4302	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4304	1-216-475-11	METAL OXIDE	120	5%	3W
R4306	1-216-475-11	METAL OXIDE	120	5%	3W
R4307	1-249-397-11	CARBON	22	5%	1/4W
R4308	1-249-433-11	CARBON	22K	5%	1/4W
R4309	1-249-414-11	CARBON	560	5%	1/4W
R4310	1-249-415-11	CARBON	680	5%	1/4W
R4311	1-249-414-11	CARBON	560	5%	1/4W
R4312	1-249-433-11	CARBON	22K	5%	1/4W
R4313	1-249-415-11	CARBON	680	5%	1/4W
R4314	1-249-429-11	CARBON	10K	5%	1/4W
R4315	1-249-384-11	CARBON	1.8	5%	1/4W
R4316	1-249-384-11	CARBON	1.8	5%	1/4W
R4317	1-249-399-11	CARBON	33	5%	1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK		
R4318	1-249-399-11	CARBON	33	5%	1/4W
R4319	1-216-476-11	METAL OXIDE	180	5%	3W
R4321	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4322	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R4323	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R4324	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4325	1-216-033-00	RES-CHIP	220	5%	1/10W
R4326	1-216-009-91	RES-CHIP	22	5%	1/10W
R4327	1-216-009-91	RES-CHIP	22	5%	1/10W

* A-1332-142-A CR BOARD, COMPLETE					

4-382-854-51 SCREW (M3X8), P, SW (+)					
<CAPACITOR>					
C7100	1-162-114-00	CERAMIC	0.0047μF		2KV
C7102	1-162-115-00	CERAMIC	330pF	10%	2KV
C7103	1-107-662-11	ELECT	22μF	20%	250V
C7104	1-126-768-11	ELECT	2200μF	20%	16V
C7105	1-162-115-00	CERAMIC	330pF	10%	2KV
C7106	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C7107	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C7108	1-126-967-11	ELECT	47μF	20%	50V
C7109	1-161-830-00	CERAMIC	0.0047μF		500V
C7110	1-102-050-00	CERAMIC	0.01μF	99%	500V
C7111	1-102-157-00	CERAMIC	560pF	10%	500V
C7112	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V
C7113	1-126-964-11	ELECT	10μF	20%	50V
C7116	1-163-255-11	CERAMIC CHIP	150pF	5%	50V
<CONNECTOR>					
CN7101*	1-564-511-11	PLUG, CONNECTOR 8P			
CN7102*	1-564-509-11	PLUG, CONNECTOR 6P			
CN7103*	1-564-512-11	PLUG, CONNECTOR 9P			
CN7104	1-785-879-11	CONNECTOR, ONE TOUCH			
CN7106	1-695-915-11	TAB (CONTACT)			
<DIODE>					
D7102	8-719-921-86	DIODE MTZJ-T-77-13			
D7103	8-719-901-83	DIODE 1SS83TD			
D7104	8-719-901-83	DIODE 1SS83TD			
D7105	8-719-901-83	DIODE 1SS83TD			
D7106	8-719-901-83	DIODE 1SS83TD			
D7107	1-216-295-11	SHORT	0		
D7109	8-719-921-86	DIODE MTZJ-T-77-13			
D7110	8-719-921-86	DIODE MTZJ-T-77-13			
<IC>					
IC7101	8-759-360-83	IC TDA6111Q/N4			

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KP-57XBR10W/65XBR10W
RM-Y907 RM-Y907

CR CG

REF. NO.	PART NO.	DESCRIPTION	REMARK				
<JACK>							
J7101	△ 1-251-182-11	SOCKET, CRT					
<COIL>							
L7102	1-414-223-11	INDUCTOR	470μH				
L7103	1-414-181-11	INDUCTOR	4.7μH				
L7104	1-414-187-11	INDUCTOR	47μH				
<NEON LAMP>							
NL7101	1-517-778-21	LAMP, NEON					
<TRANSISTOR>							
Q7101	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX				
Q7102	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX				
<RESISTOR>							
R7101	1-260-132-11	CARBON	560K	5%	1/2W		
R7102	1-249-389-11	CARBON	4.7	5%	1/4W		
R7103	1-216-295-11	SHORT	0				
R7105	1-260-117-11	CARBON	33K	5%	1/2W		
R7106	1-219-743-11	CARBON	100	5%	1/2W		
R7107	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W		
R7108	1-260-133-11	CARBON	680K	5%	1/2W		
R7109	1-208-808-11	METAL CHIP	12K	0.5%	1/10W		
R7110	1-208-793-11	METAL CHIP	3K	0.5%	1/10W		
R7111	1-216-033-00	RES-CHIP	220	5%	1/10W		
R7112	1-249-424-11	CARBON	3.9K	5%	1/4W		
R7113	1-216-029-00	RES-CHIP	150	5%	1/10W		
R7114	1-216-660-11	METAL CHIP	2.4K	0.5%	1/10W		
R7115	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W		
R7116	1-215-904-11	METAL OXIDE	100K	5%	2W		
R7117	1-260-093-11	CARBON	330	5%	1/2W		
R7118	1-260-087-11	CARBON	100	5%	1/2W		
R7119	1-260-328-11	CARBON	1K	5%	1/2W		
R7122	1-216-033-00	RES-CHIP	220	5%	1/10W		
R7123	1-216-053-00	RES-CHIP	1.5K	5%	1/10W		
R7126	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W		
R7127	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W		
<SPARK GAP>							
SG7101	1-519-422-11	GAP, SPARK					
SG7102	1-517-729-31	GAP, SPARK					

* A-1332-143-A CG BOARD, COMPLETE							

4-382-854-51 SCREW (M3X8), P. SW (+)							

* A-1332-143-A CG BOARD, COMPLETE

4-382-854-51 SCREW (M3X8), P, SW (+)

REF. NO.	PART NO.	DESCRIPTION	REMARK		
<CAPACITOR>					
C7200	1-162-114-00	CERAMIC	0.0047μF	2KV	
C7202	1-162-115-00	CERAMIC	330pF	10%	2KV
C7203	1-126-768-11	ELECT	2200μF	20%	16V
C7204	1-107-662-11	ELECT	22μF	20%	250V
C7205	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C7206	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C7207	1-162-115-00	CERAMIC	330pF	10%	2KV
C7208	1-126-967-11	ELECT	47μF	20%	50V
C7209	1-102-050-00	CERAMIC	0.01μF	99%	500V
C7210	1-161-830-00	CERAMIC	0.0047μF	500V	
C7211	1-102-157-00	CERAMIC	560pF	10%	500V
C7213	1-163-085-00	CERAMIC CHIP	2pF	0.25pF	50V
C7214	1-126-964-11	ELECT	10μF	20%	50V
C7216	1-163-255-11	CERAMIC CHIP	150pF	5%	50V
<CONNECTOR>					
CN7201*	1-564-509-11	PLUG, CONNECTOR	6P		
CN7202*	1-564-508-11	PLUG, CONNECTOR	5P		
CN7203*	1-564-512-11	PLUG, CONNECTOR	9P		
CN7204*	1-564-512-11	PLUG, CONNECTOR	9P		
CN7205	1-785-879-11	CONNECTOR, ONE TOUCH			
CN7208	1-695-915-11	TAB (CONTACT)			
CN7210*	1-564-506-11	PLUG, CONNECTOR	3P		
<DIODE>					
D7202	8-719-921-86	DIODE	MTZJ-T-77-13		
D7203	8-719-901-83	DIODE	1SS83TD		
D7204	8-719-901-83	DIODE	1SS83TD		
D7205	8-719-901-83	DIODE	1SS83TD		
D7206	8-719-901-83	DIODE	1SS83TD		
D7207	1-216-295-11	SHORT	0		
D7208	8-719-073-01	DIODE	MA111-TX		
D7209	8-719-921-86	DIODE	MTZJ-T-77-13		
D7210	8-719-921-86	DIODE	MTZJ-T-77-13		
<IC>					
IC7201	8-759-360-83	IC	TDA6111Q/N4		
<JACK>					
J7201	△ 1-251-182-11	SOCKET, CRT			
<COIL>					
L7201	1-414-223-11	INDUCTOR	470μH		
L7203	1-414-181-11	INDUCTOR	4.7μH		
L7204	1-414-187-11	INDUCTOR	47μH		
<NEON LAMP>					
NL7201	1-517-778-21	LAMP, NEON			



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REF. NO.	PART NO.	DESCRIPTION	REMARK				REF. NO.	PART NO.	DESCRIPTION	REMARK			
<TRANSISTOR>							C7315	1-163-085-00	CERAMIC CHIP	2pF	0.25pF	50V	
Q7201	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX				C7316	1-163-255-11	CERAMIC CHIP	150pF	5%	50V	
Q7202	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX				<CONNECTOR>						
<RESISTOR>							CN7301*	1-564-508-11	PLUG, CONNECTOR	5P			
R7201	1-260-132-11	CARBON	560K	5%	1/2W		CN7302*	1-564-512-11	PLUG, CONNECTOR	9P			
R7202	1-216-295-11	SHORT	0				CN7303*	1-564-510-11	PLUG, CONNECTOR	7P			
R7203	1-216-097-11	RES-CHIP	100K	5%	1/10W		CN7304	1-785-879-11	CONNECTOR, ONE TOUCH				
R7204	1-219-743-11	CARBON	100	5%	1/2W		CN7307	1-695-915-11	TAB (CONTACT)				
R7205	1-260-117-11	CARBON	33K	5%	1/2W		CN7314*	1-564-507-11	PLUG, CONNECTOR	4P			
R7206	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W		<DIODE>						
R7207	1-208-808-11	METAL CHIP	12K	0.5%	1/10W		D7302	8-719-921-86	DIODE	MTZJ-T-77-13			
R7208	1-216-033-00	RES-CHIP	220	5%	1/10W		D7303	8-719-901-83	DIODE	1SS83TD			
R7209	1-260-133-11	CARBON	680K	5%	1/2W		D7304	8-719-901-83	DIODE	1SS83TD			
R7210	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W		D7305	8-719-901-83	DIODE	1SS83TD			
R7211	1-249-424-11	CARBON	3.9K	5%	1/4W		D7306	8-719-901-83	DIODE	1SS83TD			
R7212	1-208-788-11	METAL CHIP	1.8K	0.5%	1/10W		D7307	8-719-073-01	DIODE	MA111-TX			
R7213	1-215-904-11	METAL OXIDE	100K	5%	2W		D7310	8-719-991-33	DIODE	1SS133T-77			
R7214	1-216-029-00	RES-CHIP	150	5%	1/10W		D7311	8-719-921-86	DIODE	MTZJ-T-77-13			
R7216	1-260-093-11	CARBON	330	5%	1/2W		D7312	8-719-921-86	DIODE	MTZJ-T-77-13			
R7217	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W		D7313	1-216-295-11	SHORT	0			
R7219	1-216-053-00	RES-CHIP	1.5K	5%	1/10W		<IC>						
R7220	1-216-033-00	RES-CHIP	220	5%	1/10W		IC7301	8-759-360-83	IC	TDA6111Q/N4			
R7221	1-260-328-11	CARBON	1K	5%	1/2W		<JACK>						
R7223	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W		J7301	△ 1-251-182-11	SOCKET, CRT				
R7224	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W		<COIL>						
R7225	1-260-087-11	CARBON	100	5%	1/2W		L7301	1-414-223-11	INDUCTOR	470μH			
<SPARK GAP>							L7303	1-414-181-11	INDUCTOR	4.7μH			
SG7201	1-519-422-11	GAP, SPARK					L7304	1-414-187-11	INDUCTOR	47μH			
SG7202	1-517-729-31	GAP, SPARK					<NEON LAMP>						
SG7203	1-519-422-11	GAP, SPARK					NL7301	1-517-778-21	LAMP, NEON				
<CAPACITOR>							NL7302	1-517-778-21	LAMP, NEON				
C7300	1-162-114-00	CERAMIC	0.0047μF	2KV			<TRANSISTOR>						
C7302	1-162-115-00	CERAMIC	330pF	10%	2KV		Q7301	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX			
C7303	1-162-115-00	CERAMIC	330pF	10%	2KV		Q7302	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX			
C7304	1-126-768-11	ELECT	2200μF	20%	16V		<RESISTOR>						
C7305	1-163-038-11	CERAMIC CHIP	0.1μF		25V		R7301	1-219-743-11	CARBON	100	5%	1/2W	
C7306	1-163-038-11	CERAMIC CHIP	0.1μF		25V		R7302	1-260-132-11	CARBON	560K	5%	1/2W	
C7307	1-107-662-11	ELECT	22μF	20%	250V		R7303	1-249-393-11	CARBON	10	5%	1/4W	
C7308	1-126-967-11	ELECT	47μF	20%	50V		R7304	1-216-295-11	SHORT	0			
C7310	1-161-830-00	CERAMIC	0.0047μF	500V			R7307	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W	
C7311	1-102-050-00	CERAMIC	0.01μF	99%	500V		R7308	1-260-133-11	CARBON	680K	5%	1/2W	
C7312	1-102-157-00	CERAMIC	560pF	10%	500V								
C7314	1-126-964-11	ELECT	10μF	20%	50V								

* A-1332-144-A CB BOARD, COMPLETE

4-382-854-51 SCREW (M3X8), P, SW (+)



REF. NO.	PART NO.	DESCRIPTION	REMARK
R7309	1-216-660-11	METAL CHIP 2.4K	0.5% 1/10W
R7311	1-208-808-11	METAL CHIP 12K	0.5% 1/10W
R7312	1-208-793-11	METAL CHIP 3K	0.5% 1/10W
R7313	1-216-033-00	RES-CHIP 220	5% 1/10W
R7314	1-249-424-11	CARBON 3.9K	5% 1/4W
R7315	1-216-029-00	RES-CHIP 150	5% 1/10W
R7316	1-215-904-11	METAL OXIDE 100K	5% 2W
R7317	1-260-093-11	CARBON 330	5% 1/2W
R7319	1-208-806-11	METAL CHIP 10K	0.5% 1/10W
R7320	1-260-087-11	CARBON 100	5% 1/2W
R7321	1-260-117-11	CARBON 33K	5% 1/2W
R7323	1-216-033-00	RES-CHIP 220	5% 1/10W
R7324	1-216-053-00	RES-CHIP 1.5K	5% 1/10W
R7325	1-260-328-11	CARBON 1K	5% 1/2W
R7326	1-208-803-11	METAL CHIP 7.5K	0.5% 1/10W
R7327	1-208-802-11	METAL CHIP 6.8K	0.5% 1/10W

<SPARK GAP>

SG7301	1-519-422-11	GAP, SPARK
SG7302	1-517-729-31	GAP, SPARK

* A-1131-650-A BD BOARD, COMPLETE

<CAPACITOR>

C1703	1-163-275-11	CERAMIC CHIP 0.001μF	5%	50V
C1705	1-164-346-11	CERAMIC CHIP 1μF		16V
C1707	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1708	1-104-664-11	ELECT 47μF	20%	25V
C1709	1-126-964-11	ELECT 10μF	20%	50V
C1710	1-164-346-11	CERAMIC CHIP 1μF		16V
C1711	1-164-690-91	CERAMIC CHIP 0.0022μF	5%	50V
C1712	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1713	1-104-664-11	ELECT 47μF	20%	25V
C1714	1-164-346-11	CERAMIC CHIP 1μF		16V
C1717	1-163-275-11	CERAMIC CHIP 0.001μF	5%	50V
C1718	1-164-690-91	CERAMIC CHIP 0.0022μF	5%	50V
C1719	1-163-237-11	CERAMIC CHIP 27pF	5%	50V
C1721	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1722	1-104-664-11	ELECT 47μF	20%	25V
C1723	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1724	1-104-664-11	ELECT 47μF	20%	25V
C1725	1-163-231-11	CERAMIC CHIP 15pF	5%	50V
C1727	1-164-690-91	CERAMIC CHIP 0.0022μF	5%	50V
C1729	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1730	1-104-664-11	ELECT 47μF	20%	25V
C1737	1-163-275-11	CERAMIC CHIP 0.001μF	5%	50V
C1738	1-164-690-91	CERAMIC CHIP 0.0022μF	5%	50V
C1739	1-104-664-11	ELECT 47μF	20%	25V
C1740	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1741	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1744	1-163-038-11	CERAMIC CHIP 0.1μF		25V

C1745	1-104-664-11	ELECT 47μF	20%	25V
C1747	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1748	1-104-664-11	ELECT 47μF	20%	25V
C1749	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1750	1-104-664-11	ELECT 47μF	20%	25V
C1753	1-163-275-11	CERAMIC CHIP 0.001μF	5%	50V
C1757	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1758	1-104-664-11	ELECT 47μF	20%	25V
C1761	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1762	1-104-664-11	ELECT 47μF	20%	25V
C1763	1-104-664-11	ELECT 47μF	20%	25V
C1764	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1768	1-163-275-11	CERAMIC CHIP 0.001μF	5%	50V
C1772	1-115-339-11	CERAMIC CHIP 0.1μF	10%	50V
C1773	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1774	1-104-664-11	ELECT 47μF	20%	25V
C1775	1-164-161-11	CERAMIC CHIP 0.0022μF	10%	50V
C1776	1-104-664-11	ELECT 47μF	20%	25V
C1777	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1779	1-163-259-91	CERAMIC CHIP 220pF	5%	50V
C1780	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1781	1-104-664-11	ELECT 47μF	20%	25V
C1785	1-163-275-11	CERAMIC CHIP 0.001μF	5%	50V
C1786	1-164-690-91	CERAMIC CHIP 0.0022μF	5%	50V
C1787	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1788	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1789	1-104-664-11	ELECT 47μF	20%	25V
C1790	1-104-664-11	ELECT 47μF	20%	25V
C1791	1-163-259-91	CERAMIC CHIP 220pF	5%	50V
C1792	1-104-664-11	ELECT 47μF	20%	25V
C1793	1-104-664-11	ELECT 47μF	20%	25V
C1794	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1796	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1797	1-104-664-11	ELECT 47μF	20%	25V
C1798	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1799	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1801	1-104-664-11	ELECT 47μF	20%	25V
C1802	1-163-259-91	CERAMIC CHIP 220pF	5%	50V
C1803	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1804	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1805	1-104-664-11	ELECT 47μF	20%	25V
C1806	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1807	1-104-664-11	ELECT 47μF	20%	25V
C1808	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1809	1-104-664-11	ELECT 47μF	20%	25V
C1810	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1811	1-163-259-91	CERAMIC CHIP 220pF	5%	50V
C1812	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1814	1-104-664-11	ELECT 47μF	20%	25V
C1815	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1816	1-104-664-11	ELECT 47μF	20%	25V
C1817	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1818	1-104-664-11	ELECT 47μF	20%	25V
C1819	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1820	1-163-235-11	CERAMIC CHIP 22pF	5%	50V
C1821	1-163-038-11	CERAMIC CHIP 0.1μF		25V
C1822	1-163-038-11	CERAMIC CHIP 0.1μF		25V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1823	1-163-038-11	CERAMIC CHIP 0.1μF	25V	IC1707	8-759-589-66	IC CM0006CF	
C1824	1-163-038-11	CERAMIC CHIP 0.1μF	25V	IC1708	8-759-106-02	IC μPC4570G2-E2	
C1825	1-163-038-11	CERAMIC CHIP 0.1μF	25V	IC1709	8-759-106-02	IC μPC4570G2-E2	
C1830	1-115-339-11	CERAMIC CHIP 0.1μF	10% 50V	IC1710	8-759-106-02	IC μPC4570G2-E2	
C1831	1-163-038-11	CERAMIC CHIP 0.1μF	25V	IC1712	8-759-032-20	IC TC74HC32AF(EL)	
C1832	1-104-664-11	ELECT 47μF	20% 25V	IC1713	8-759-998-22	IC PCM56P-L	
C1833	1-163-259-91	CERAMIC CHIP 220pF	5% 50V	IC1714	8-759-998-22	IC PCM56P-L	
C1834	1-163-038-11	CERAMIC CHIP 0.1μF	25V	IC1715	8-759-998-22	IC PCM56P-L	
C1835	1-163-038-11	CERAMIC CHIP 0.1μF	25V	IC1716	8-759-032-23	IC TC74HC74AF(EL)	
C1836	1-163-038-11	CERAMIC CHIP 0.1μF	25V	IC1717	8-759-488-29	IC TC7W66FU(TE12R)	
C1837	1-163-038-11	CERAMIC CHIP 0.1μF	25V	IC1718	8-759-352-91	IC PST9143NL	
C1838	1-104-664-11	ELECT 47μF	20% 25V	IC1719	8-759-998-22	IC PCM56P-L	
C1839	1-163-038-11	CERAMIC CHIP 0.1μF	25V	IC1720	8-759-998-22	IC PCM56P-L	
C1840	1-104-664-11	ELECT 47μF	20% 25V	IC1721	8-759-998-22	IC PCM56P-L	
C1841	1-163-038-11	CERAMIC CHIP 0.1μF	25V	IC1722	8-759-669-75	IC TLC2932IPW-E20	
C1842	1-163-038-11	CERAMIC CHIP 0.1μF	25V	IC1723	8-759-485-79	IC TC7SET08FU(TE85L))	
C1844	1-104-664-11	ELECT 47μF	20% 25V	IC1725	8-759-485-79	IC TC7SET08FU(TE85L))	
C1845	1-163-038-11	CERAMIC CHIP 0.1μF	25V				
C1846	1-104-664-11	ELECT 47μF	20% 25V			<CHIP CONDUCTOR>	
C1847	1-163-038-11	CERAMIC CHIP 0.1μF	25V	JR1701	1-216-295-11	SHORT 0	
C1849	1-164-690-91	CERAMIC CHIP 0.0022μF	5% 50V				
C1856	1-163-038-11	CERAMIC CHIP 0.1μF	25V			<COIL>	
C1857	1-104-664-11	ELECT 47μF	20% 25V	L1703	1-469-555-21	INDUCTOR 10μH	
C1858	1-104-664-11	ELECT 47μF	20% 25V	L1704	1-469-555-21	INDUCTOR 10μH	
C1859	1-109-982-11	CERAMIC CHIP 1μF	10% 10V	L1707	1-469-555-21	INDUCTOR 10μH	
C1860	1-163-038-11	CERAMIC CHIP 0.1μF	25V	L1708	1-469-555-21	INDUCTOR 10μH	
C1861	1-163-038-11	CERAMIC CHIP 0.1μF	25V	L1709	1-414-234-22	INDUCTOR 0μH	
C1862	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	L1710	1-469-555-21	INDUCTOR 10μH	
C1863	1-163-001-11	CERAMIC CHIP 220pF	10% 50V	L1713	1-469-555-21	INDUCTOR 10μH	
C1864	1-163-038-11	CERAMIC CHIP 0.1μF	25V	L1714	1-414-234-22	INDUCTOR 0μH	
C1877	1-163-038-11	CERAMIC CHIP 0.1μF	25V	L1715	1-469-555-21	INDUCTOR 10μH	
C1878	1-163-259-91	CERAMIC CHIP 220pF	5% 50V	L1716	1-469-555-21	INDUCTOR 10μH	
C1879	1-163-038-11	CERAMIC CHIP 0.1μF	25V	L1719	1-469-555-21	INDUCTOR 10μH	
C1880	1-163-038-11	CERAMIC CHIP 0.1μF	25V	L1720	1-469-555-21	INDUCTOR 10μH	
		<CONNECTOR>		L1721	1-414-234-22	INDUCTOR 0μH	
CN1701	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P		L1724	1-469-555-21	INDUCTOR 10μH	
CN1702	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P		L1725	1-414-234-22	INDUCTOR 0μH	
		<DIODE>		L1726	1-469-555-21	INDUCTOR 10μH	
D1701	8-719-016-74	DIODE 1SS352-TPH3		L1729	1-414-234-22	INDUCTOR 0μH	
D1702	8-719-016-74	DIODE 1SS352-TPH3		L1730	1-469-555-21	INDUCTOR 10μH	
D1703	8-719-016-74	DIODE 1SS352-TPH3		L1731	1-469-555-21	INDUCTOR 10μH	
D1704	8-719-016-74	DIODE 1SS352-TPH3		L1732	1-414-234-22	INDUCTOR 0μH	
D1705	8-719-016-74	DIODE 1SS352-TPH3		L1733	1-414-234-22	INDUCTOR 0μH	
D1706	8-719-016-74	DIODE 1SS352-TPH3		L1734	1-414-234-22	INDUCTOR 0μH	
		<IC>		L1735	1-414-234-22	INDUCTOR 0μH	
IC1702	8-759-106-02	IC μPC4570G2-E2		L1736	1-414-234-22	INDUCTOR 0μH	
IC1703	8-752-919-31	IC CXP86324-029Q		L1737	1-414-234-22	INDUCTOR 0μH	
IC1704	8-759-682-41	IC M24C32-WMN6T(A)		L1738	1-414-234-22	INDUCTOR 0μH	
IC1705	8-759-106-02	IC μPC4570G2-E2		L1739	1-414-234-22	INDUCTOR 0μH	
IC1706	8-759-106-02	IC μPC4570G2-E2		L1740	1-414-234-22	INDUCTOR 0μH	
				L1741	1-414-234-22	INDUCTOR 0μH	
				L1742	1-414-234-22	INDUCTOR 0μH	
				L1744	1-414-234-22	INDUCTOR 0μH	
				L1745	1-414-234-22	INDUCTOR 0μH	
				L1746	1-414-234-22	INDUCTOR 0μH	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L1747	1-414-234-22	INDUCTOR	0μH	R1730	1-208-850-11	METAL CHIP	680K 0.5% 1/10W
L1748	1-414-234-22	INDUCTOR	0μH	R1731	1-216-025-11	RES-CHIP	100 5% 1/10W
				R1732	1-208-799-11	METAL CHIP	5.1K 0.5% 1/10W
L1750	1-414-234-22	INDUCTOR	0μH				
L1751	1-414-234-22	INDUCTOR	0μH	R1733	1-216-025-11	RES-CHIP	100 5% 1/10W
L1753	1-414-234-22	INDUCTOR	0μH	R1735	1-216-025-11	RES-CHIP	100 5% 1/10W
L1754	1-414-234-22	INDUCTOR	0μH	R1736	1-216-025-11	RES-CHIP	100 5% 1/10W
L1756	1-414-234-22	INDUCTOR	0μH	R1737	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
				R1738	1-216-295-11	SHORT	0
L1757	1-414-234-22	INDUCTOR	0μH				
L1759	1-414-234-22	INDUCTOR	0μH	R1739	1-216-295-11	SHORT	0
L1760	1-414-234-22	INDUCTOR	0μH	R1740	1-216-025-11	RES-CHIP	100 5% 1/10W
L1762	1-414-234-22	INDUCTOR	0μH	R1741	1-216-033-00	RES-CHIP	220 5% 1/10W
L1763	1-414-234-22	INDUCTOR	0μH	R1742	1-216-025-11	RES-CHIP	100 5% 1/10W
				R1743	1-216-033-00	RES-CHIP	220 5% 1/10W
L1764	1-414-234-22	INDUCTOR	0μH				
L1765	1-414-234-22	INDUCTOR	0μH	R1744	1-216-025-11	RES-CHIP	100 5% 1/10W
L1766	1-414-234-22	INDUCTOR	0μH	R1745	1-216-033-00	RES-CHIP	220 5% 1/10W
L1767	1-414-234-22	INDUCTOR	0μH	R1746	1-216-033-00	RES-CHIP	220 5% 1/10W
L1768	1-414-234-22	INDUCTOR	0μH	R1747	1-216-025-11	RES-CHIP	100 5% 1/10W
				R1748	1-216-025-11	RES-CHIP	100 5% 1/10W
L1769	1-414-234-22	INDUCTOR	0μH				
L1770	1-414-234-22	INDUCTOR	0μH	R1749	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
				R1750	1-216-295-11	SHORT	0
<TRANSISTOR>				R1751	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q1701	1-801-806-11	TRANSISTOR	DTC144EKA-T146	R1752	1-208-799-11	METAL CHIP	5.1K 0.5% 1/10W
Q1702	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	R1753	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q1703	8-729-900-53	TRANSISTOR	DTC114EKA-T146				
Q1709	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	R1754	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q1710	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	R1755	1-216-025-11	RES-CHIP	100 5% 1/10W
				R1756	1-208-799-11	METAL CHIP	5.1K 0.5% 1/10W
				R1759	1-216-025-11	RES-CHIP	100 5% 1/10W
				R1760	1-216-025-11	RES-CHIP	100 5% 1/10W
<RESISTOR>							
R1701	1-208-782-11	METAL CHIP	1K 0.5% 1/10W	R1761	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1702	1-208-782-11	METAL CHIP	1K 0.5% 1/10W	R1762	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1703	1-208-799-11	METAL CHIP	5.1K 0.5% 1/10W	R1763	1-216-025-11	RES-CHIP	100 5% 1/10W
R1704	1-216-295-11	SHORT	0	R1764	1-216-025-11	RES-CHIP	100 5% 1/10W
R1705	1-216-025-11	RES-CHIP	100 5% 1/10W	R1765	1-216-033-00	RES-CHIP	220 5% 1/10W
R1706	1-216-025-11	RES-CHIP	100 5% 1/10W				
R1707	1-216-025-11	RES-CHIP	100 5% 1/10W	R1766	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1708	1-216-025-11	RES-CHIP	100 5% 1/10W	R1767	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1710	1-216-025-11	RES-CHIP	100 5% 1/10W	R1768	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1711	1-216-025-11	RES-CHIP	100 5% 1/10W	R1769	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
				R1770	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1712	1-216-295-11	SHORT	0				
R1713	1-216-025-11	RES-CHIP	100 5% 1/10W	R1771	1-216-025-11	RES-CHIP	100 5% 1/10W
R1714	1-216-295-11	SHORT	0	R1772	1-216-025-11	RES-CHIP	100 5% 1/10W
R1715	1-216-025-11	RES-CHIP	100 5% 1/10W	R1773	1-216-025-11	RES-CHIP	100 5% 1/10W
R1716	1-216-025-11	RES-CHIP	100 5% 1/10W	R1774	1-216-049-11	RES-CHIP	1K 5% 1/10W
				R1775	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
R1717	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R1718	1-216-025-11	RES-CHIP	100 5% 1/10W	R1777	1-208-799-11	METAL CHIP	5.1K 0.5% 1/10W
R1719	1-216-025-11	RES-CHIP	100 5% 1/10W	R1778	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1720	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1779	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R1721	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1780	1-216-025-11	RES-CHIP	100 5% 1/10W
				R1781	1-216-025-11	RES-CHIP	100 5% 1/10W
R1722	1-216-065-91	RES-CHIP	4.7K 5% 1/10W				
R1723	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1782	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R1724	1-216-025-11	RES-CHIP	100 5% 1/10W	R1783	1-216-033-00	RES-CHIP	220 5% 1/10W
R1725	1-208-782-11	METAL CHIP	1K 0.5% 1/10W	R1784	1-216-025-11	RES-CHIP	100 5% 1/10W
R1727	1-216-033-00	RES-CHIP	220 5% 1/10W	R1785	1-216-025-11	RES-CHIP	100 5% 1/10W
				R1786	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
R1728	1-216-033-00	RES-CHIP	220 5% 1/10W				
R1729	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1787	1-216-025-11	RES-CHIP	100 5% 1/10W
				R1788	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
				R1789	1-216-025-11	RES-CHIP	100 5% 1/10W
				R1790	1-216-295-11	SHORT	0

[illegible]

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C2415	1-109-982-11	CERAMIC CHIP	1μF 10%	10V	C2483	1-163-038-11	CERAMIC CHIP 0.1μF 25V
C2416	1-163-133-00	CERAMIC CHIP	470pF 5%	50V			
C2417	1-163-231-11	CERAMIC CHIP	15pF 5%	50V		<CONNECTOR>	
C2418	1-104-664-11	ELECT	47μF 20%	25V			
C2420	1-163-038-11	CERAMIC CHIP	0.1μF	25V	CN2401*	1-691-632-21	CONNECTOR, BOARD TO BOARD 15P
C2421	1-163-038-11	CERAMIC CHIP	0.1μF	25V			
C2422	1-163-038-11	CERAMIC CHIP	0.1μF	25V		<FILTER>	
C2424	1-163-038-11	CERAMIC CHIP	0.1μF	25V			
C2425	1-163-038-11	CERAMIC CHIP	0.1μF	25V	FL2401	1-239-847-11	FILTER, LOW PASS
C2426	1-163-038-11	CERAMIC CHIP	0.1μF	25V	FL2402	1-239-847-11	FILTER, LOW PASS
C2427	1-115-339-11	CERAMIC CHIP	0.1μF 10%	50V	FL2403	1-239-847-11	FILTER, LOW PASS
C2429	1-163-038-11	CERAMIC CHIP	0.1μF	25V	FL2404	1-239-847-11	FILTER, LOW PASS
C2430	1-163-038-11	CERAMIC CHIP	0.1μF	25V			
C2431	1-163-038-11	CERAMIC CHIP	0.1μF	25V		<IC>	
C2432	1-163-038-11	CERAMIC CHIP	0.1μF	25V	IC2401	8-759-568-27	IC μPD424210LE-60-E2
C2434	1-163-231-11	CERAMIC CHIP	15pF 5%	50V	IC2402	8-759-536-12	IC μPD64081BGF-3BA
C2436	1-163-038-11	CERAMIC CHIP	0.1μF	25V	IC2403	8-759-161-24	IC μPC659AGS-E2
C2437	1-163-038-11	CERAMIC CHIP	0.1μF	25V			
C2439	1-163-038-11	CERAMIC CHIP	0.1μF	25V		<INDUCTOR>	
C2440	1-163-038-11	CERAMIC CHIP	0.1μF	25V	L2401	1-469-555-21	INDUCTOR 10μH
C2441	1-163-038-11	CERAMIC CHIP	0.1μF	25V	L2402	1-414-234-22	INDUCTOR 0μH
C2442	1-163-038-11	CERAMIC CHIP	0.1μF	25V	L2403	1-414-234-22	INDUCTOR 0μH
C2443	1-163-038-11	CERAMIC CHIP	0.1μF	25V	L2404	1-414-234-22	INDUCTOR 0μH
C2444	1-164-505-11	CERAMIC CHIP	2.2μF	16V	L2405	1-469-555-21	INDUCTOR 10μH
C2445	1-163-038-11	CERAMIC CHIP	0.1μF	25V	L2406	1-469-555-21	INDUCTOR 10μH
C2446	1-163-038-11	CERAMIC CHIP	0.1μF	25V	L2407	1-414-234-22	INDUCTOR 0μH
C2447	1-163-231-11	CERAMIC CHIP	15pF 5%	50V	L2408	1-414-234-22	INDUCTOR 0μH
C2448	1-163-038-11	CERAMIC CHIP	0.1μF	25V	L2409	1-469-555-21	INDUCTOR 10μH
C2449	1-163-031-11	CERAMIC CHIP	0.01μF	50V	L2410	1-414-234-22	INDUCTOR 0μH
C2450	1-126-964-11	ELECT	10μF 20%	50V	L2411	1-414-234-22	INDUCTOR 0μH
C2451	1-163-227-11	CERAMIC CHIP	10pF	50V	L2412	1-414-234-22	INDUCTOR 0μH
C2452	1-163-038-11	CERAMIC CHIP	0.1μF	25V	L2413	1-414-234-22	INDUCTOR 0μH
C2453	1-163-038-11	CERAMIC CHIP	0.1μF	25V	L2414	1-414-234-22	INDUCTOR 0μH
C2454	1-163-038-11	CERAMIC CHIP	0.1μF	25V	L2415	1-414-234-22	INDUCTOR 0μH
C2455	1-164-505-11	CERAMIC CHIP	2.2μF	16V	L2416	1-414-234-22	INDUCTOR 0μH
C2456	1-163-031-11	CERAMIC CHIP	0.01μF	50V	L2417	1-414-234-22	INDUCTOR 0μH
C2457	1-163-241-11	CERAMIC CHIP	39pF 5%	50V	L2418	1-414-234-22	INDUCTOR 0μH
C2458	1-163-038-11	CERAMIC CHIP	0.1μF	25V	L2420	1-414-234-22	INDUCTOR 0μH
C2459	1-126-935-11	ELECT	470μF 20%	6.3V	L2421	1-414-234-22	INDUCTOR 0μH
C2461	1-163-231-11	CERAMIC CHIP	15pF 5%	50V	L2422	1-414-234-22	INDUCTOR 0μH
C2462	1-163-249-11	CERAMIC CHIP	82pF 5%	50V	L2423	1-469-555-21	INDUCTOR 10μH
C2463	1-163-038-11	CERAMIC CHIP	0.1μF	25V	L2424	1-469-555-21	INDUCTOR 10μH
C2464	1-163-038-11	CERAMIC CHIP	0.1μF	25V	L2425	1-414-234-22	INDUCTOR 0μH
C2466	1-164-505-11	CERAMIC CHIP	2.2μF	16V	L2427	1-216-295-11	SHORT 0
C2467	1-163-255-11	CERAMIC CHIP	150pF 5%	50V	L2428	1-216-295-11	SHORT 0
C2468	1-104-664-11	ELECT	47μF 20%	25V	L2429	1-216-295-11	SHORT 0
C2471	1-163-038-11	CERAMIC CHIP	0.1μF	25V	L2430	1-469-555-21	INDUCTOR 10μH
C2472	1-163-038-11	CERAMIC CHIP	0.1μF	25V			
C2474	1-163-021-91	CERAMIC CHIP	0.01μF 10%	50V		<TRANSISTOR>	
C2475	1-126-934-11	ELECT	220μF 20%	10V	Q2401	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX
C2476	1-163-038-11	CERAMIC CHIP	0.1μF	25V	Q2402	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX
C2477	1-163-038-11	CERAMIC CHIP	0.1μF	25V	Q2403	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX
C2478	1-163-038-11	CERAMIC CHIP	0.1μF	25V	Q2404	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX
C2479	1-126-963-11	ELECT	4.7μF 20%	50V	Q2405	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX
C2480	1-163-038-11	CERAMIC CHIP	0.1μF	25V			
C2481	1-126-961-11	ELECT	2.2μF 20%	50V			
C2482	1-163-038-11	CERAMIC CHIP	0.1μF	25V			

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
Q2406	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX			R2441	1-216-075-00	RES-CHIP	12K	5%	1/10W
Q2407	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX			R2442	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q2408	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX								
Q2409	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX			R2444	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
Q2410	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX			R2445	1-216-025-11	RES-CHIP	100	5%	1/10W
						R2446	1-216-025-11	RES-CHIP	100	5%	1/10W
Q2411	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX			R2447	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q2412	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX			R2448	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
Q2413	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX								
Q2414	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX			R2449	1-208-784-11	METAL CHIP	1.2K	0.5%	1/10W
Q2415	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX			R2450	1-216-085-00	RES-CHIP	33K	5%	1/10W
						R2451	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q2416	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX			R2452	1-216-025-11	RES-CHIP	100	5%	1/10W
Q2417	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX			R2453	1-216-025-11	RES-CHIP	100	5%	1/10W
Q2418	1-801-806-11	TRANSISTOR	DTC144EKA-T146								
Q2419	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX			R2454	1-208-776-11	METAL CHIP	560	0.5%	1/10W
Q2421	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX			R2455	1-216-295-11	SHORT	0		
						R2456	1-216-017-91	RES-CHIP	47	5%	1/10W
Q2422	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX			R2457	1-216-049-11	RES-CHIP	1K	5%	1/10W
						R2458	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
		<RESISTOR>									
R2401	1-216-295-11	SHORT	0			R2459	1-208-778-11	METAL CHIP	680	0.5%	1/10W
R2402	1-216-295-11	SHORT	0			R2460	1-216-047-91	RES-CHIP	820	5%	1/10W
R2403	1-216-295-11	SHORT	0			R2461	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2404	1-216-021-00	RES-CHIP	68	5%	1/10W	R2462	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2405	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2464	1-216-025-11	RES-CHIP	100	5%	1/10W
R2406	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	R2465	1-216-025-11	RES-CHIP	100	5%	1/10W
R2407	1-208-782-11	METAL CHIP	1K	0.5%	1/10W	R2466	1-216-025-11	RES-CHIP	100	5%	1/10W
R2408	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	R2467	1-216-025-11	RES-CHIP	100	5%	1/10W
R2409	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R2468	1-216-025-11	RES-CHIP	100	5%	1/10W
R2410	1-216-295-11	SHORT	0			R2469	1-216-025-11	RES-CHIP	100	5%	1/10W
R2411	1-216-033-00	RES-CHIP	220	5%	1/10W	R2470	1-216-025-11	RES-CHIP	100	5%	1/10W
R2413	1-216-025-11	RES-CHIP	100	5%	1/10W	R2471	1-216-025-11	RES-CHIP	100	5%	1/10W
R2414	1-216-025-11	RES-CHIP	100	5%	1/10W	R2472	1-216-025-11	RES-CHIP	100	5%	1/10W
R2415	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R2476	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R2416	1-216-105-91	RES-CHIP	220K	5%	1/10W	R2477	1-216-025-11	RES-CHIP	100	5%	1/10W
R2417	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R2478	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R2418	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W	R2479	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R2419	1-208-776-11	METAL CHIP	560	0.5%	1/10W	R2480	1-216-295-11	SHORT	0		
R2420	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2481	1-216-295-11	SHORT	0		
R2421	1-216-041-00	RES-CHIP	470	5%	1/10W	R2482	1-216-295-11	SHORT	0		
R2422	1-216-025-11	RES-CHIP	100	5%	1/10W	R2483	1-216-295-11	SHORT	0		
R2423	1-216-033-00	RES-CHIP	220	5%	1/10W	R2484	1-216-295-11	SHORT	0		
R2424	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2485	1-216-295-11	SHORT	0		
R2425	1-208-774-11	METAL CHIP	470	0.5%	1/10W	R2486	1-216-295-11	SHORT	0		
R2426	1-208-774-11	METAL CHIP	470	0.5%	1/10W	R2487	1-216-295-11	SHORT	0		
R2427	1-216-025-11	RES-CHIP	100	5%	1/10W	R2489	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R2428	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W	R2490	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R2429	1-208-776-11	METAL CHIP	560	0.5%	1/10W						
R2430	1-216-049-11	RES-CHIP	1K	5%	1/10W	*****					
R2431	1-216-049-11	RES-CHIP	1K	5%	1/10W	* A-1131-648-A BM BOARD, COMPLETE					

R2432	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W						
R2433	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W						
R2434	1-216-085-00	RES-CHIP	33K	5%	1/10W						
R2435	1-208-776-11	METAL CHIP	560	0.5%	1/10W						
R2436	1-216-025-11	RES-CHIP	100	5%	1/10W						
R2438	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C001	1-163-038-11	CERAMIC CHIP	0.1μF		25V
R2439	1-208-784-11	METAL CHIP	1.2K	0.5%	1/10W	C002	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
R2440	1-216-047-91	RES-CHIP	820	5%	1/10W	C003	1-104-760-11	CERAMIC CHIP	0.047μF	10%	50V
						C004	1-163-038-11	CERAMIC CHIP	0.1μF		25V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C005	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C074	1-126-204-11	ELECT CHIP	47μF 20% 16V
C006	1-126-204-11	ELECT CHIP	47μF 20% 16V	C075	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C009	1-126-204-11	ELECT CHIP	47μF 20% 16V	C076	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C010	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C077	1-126-204-11	ELECT CHIP	47μF 20% 16V
C011	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C078	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C012	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C081	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C013	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C082	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C014	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C083	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C015	1-126-204-11	ELECT CHIP	47μF 20% 16V	C084	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C016	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C085	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C017	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C086	1-126-204-11	ELECT CHIP	47μF 20% 16V
C018	1-126-204-11	ELECT CHIP	47μF 20% 16V	C087	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C019	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C089	1-163-237-11	CERAMIC CHIP	27pF 5% 50V
C021	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C090	1-163-231-11	CERAMIC CHIP	15pF 5% 50V
C022	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C091	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C023	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C092	1-126-204-11	ELECT CHIP	47μF 20% 16V
C024	1-126-204-11	ELECT CHIP	47μF 20% 16V	C093	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C025	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C094	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C026	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C095	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C028	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C096	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C030	1-124-779-00	ELECT CHIP	10μF 20% 16V	C097	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C031	1-164-346-11	CERAMIC CHIP	1μF 16V	C098	1-126-204-11	ELECT CHIP	47μF 20% 16V
C032	1-164-346-11	CERAMIC CHIP	1μF 16V	C100	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C034	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C101	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C035	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C102	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C036	1-126-204-11	ELECT CHIP	47μF 20% 16V	C103	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C037	1-126-204-11	ELECT CHIP	47μF 20% 16V	C104	1-126-204-11	ELECT CHIP	47μF 20% 16V
C038	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C105	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C039	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C106	1-126-204-11	ELECT CHIP	47μF 20% 16V
C040	1-126-204-11	ELECT CHIP	47μF 20% 16V	C107	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C042	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V	C108	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C043	1-163-235-11	CERAMIC CHIP	22pF 5% 50V	C109	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C044	1-163-235-11	CERAMIC CHIP	22pF 5% 50V	C110	1-124-779-00	ELECT CHIP	10μF 20% 16V
C045	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C111	1-124-779-00	ELECT CHIP	10μF 20% 16V
C046	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C112	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C047	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C113	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C050	1-126-206-11	ELECT CHIP	100μF 20% 6.3V	C114	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C052	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C115	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C053	1-126-204-11	ELECT CHIP	47μF 20% 16V	C116	1-126-204-11	ELECT CHIP	47μF 20% 16V
C054	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C117	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C055	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C118	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C056	1-126-204-11	ELECT CHIP	47μF 20% 16V	C119	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C058	1-164-005-11	CERAMIC CHIP	0.47μF 16V	C120	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V
C059	1-126-204-11	ELECT CHIP	47μF 20% 16V	C121	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C060	1-163-233-11	CERAMIC CHIP	18pF 5% 50V	C122	1-124-779-00	ELECT CHIP	10μF 20% 16V
C062	1-163-231-11	CERAMIC CHIP	15pF 5% 50V	C123	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C063	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C124	1-126-204-11	ELECT CHIP	47μF 20% 16V
C064	1-126-204-11	ELECT CHIP	47μF 20% 16V	C125	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C066	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	C126	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C067	1-164-005-11	CERAMIC CHIP	0.47μF 16V	C127	1-126-204-11	ELECT CHIP	47μF 20% 16V
C068	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C128	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C069	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C129	1-126-204-11	ELECT CHIP	47μF 20% 16V
C070	1-126-204-11	ELECT CHIP	47μF 20% 16V	C130	1-124-779-00	ELECT CHIP	10μF 20% 16V
C071	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C131	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C072	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C132	1-126-204-11	ELECT CHIP	47μF 20% 16V
C073	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C133	1-163-038-11	CERAMIC CHIP	0.1μF 25V
				C134	1-163-038-11	CERAMIC CHIP	0.1μF 25V

KP-57XBR10W/65XBR10W

RM-Y907

RM-Y907

BM

REF. NO.	PART NO.	DESCRIPTION	REMARK
C135	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C136	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C137	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C138	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C141	1-124-779-00	ELECT CHIP 10μF	20% 16V
C142	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C143	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C144	1-126-204-11	ELECT CHIP 47μF	20% 16V
C145	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C146	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C147	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C148	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C149	1-126-204-11	ELECT CHIP 47μF	20% 16V
C150	1-126-204-11	ELECT CHIP 47μF	20% 16V
C151	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C152	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C153	1-124-779-00	ELECT CHIP 10μF	20% 16V
C154	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C155	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C156	1-124-779-00	ELECT CHIP 10μF	20% 16V
C157	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C158	1-126-204-11	ELECT CHIP 47μF	20% 16V
C159	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C160	1-126-204-11	ELECT CHIP 47μF	20% 16V
C161	1-163-038-11	CERAMIC CHIP 0.1μF	25V
<CONNECTOR>			
CN001	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P	
CN002	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P	
CN003 *	1-564-507-11	PLUG, CONNECTOR 4P	
<DIODE>			
D001	8-719-073-01	DIODE MA111-TX	
D002	8-719-073-01	DIODE MA111-TX	
D003	8-719-073-01	DIODE MA111-TX	
<FILTER>			
FL001	1-233-505-21	FILTER, LOW PASS	
FL002	1-233-504-21	FILTER, LOW PASS	
FL003	1-233-504-21	FILTER, LOW PASS	
FL007	1-233-505-21	FILTER, LOW PASS	
FL008	1-233-945-21	FILTER, LOW PASS	
FL009	1-233-944-21	FILTER, LOW PASS	
FL010	1-233-504-21	FILTER, LOW PASS	
FL011	1-233-944-21	FILTER, LOW PASS	
FL012	1-233-504-21	FILTER, LOW PASS	
<IC>			
IC001	8-759-467-22	IC MSM548331TS-K	
IC002	8-759-669-75	IC TLC2932IPWR	
IC003	8-752-388-98	IC CXD2303AQ-TL	
IC004	8-759-485-79	IC TC7SET08FU(TE85L)	
IC005	8-759-672-79	IC M24C02-WMN6T(A)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC006	8-759-352-91	IC PST9143NL	
IC007	8-759-485-79	IC TC7SET08FU(TE85L)	
IC008	8-759-669-75	IC TLC2932IPWR	
IC009	8-752-919-22	IC CXP85840A-043Q	
IC010	8-752-392-55	IC CXD2079Q	
IC011	8-759-669-75	IC TLC2932IPWR	
IC012	8-759-485-79	IC TC7SET08FU(TE85L)	
IC013	8-759-467-22	IC MSM548331TS-K	
IC014	8-752-388-98	IC CXD2303AQ-TL	
<INDUCTOR>			
L001	1-414-234-22	INDUCTOR 0μH	
L002	1-414-234-22	INDUCTOR 0μH	
L003	1-414-234-22	INDUCTOR 0μH	
L004	1-414-234-22	INDUCTOR 0μH	
L005	1-414-234-22	INDUCTOR 0μH	
L006	1-414-234-22	INDUCTOR 0μH	
L007	1-414-754-11	INDUCTOR 10μH	
L008	1-414-754-11	INDUCTOR 10μH	
L009	1-414-754-11	INDUCTOR 10μH	
L010	1-414-234-22	INDUCTOR 0μH	
L011	1-414-754-11	INDUCTOR 10μH	
L012	1-414-754-11	INDUCTOR 10μH	
L013	1-414-234-22	INDUCTOR 0μH	
L014	1-414-754-11	INDUCTOR 10μH	
L015	1-414-234-22	INDUCTOR 0μH	
L016	1-414-234-22	INDUCTOR 0μH	
L017	1-414-234-22	INDUCTOR 0μH	
L018	1-414-234-22	INDUCTOR 0μH	
L019	1-414-234-22	INDUCTOR 0μH	
L020	1-414-234-22	INDUCTOR 0μH	
L021	1-414-234-22	INDUCTOR 0μH	
L022	1-414-234-22	INDUCTOR 0μH	
L023	1-414-234-22	INDUCTOR 0μH	
L024	1-414-234-22	INDUCTOR 0μH	
L025	1-414-234-22	INDUCTOR 0μH	
L026	1-414-234-22	INDUCTOR 0μH	
L027	1-414-234-22	INDUCTOR 0μH	
L028	1-414-234-22	INDUCTOR 0μH	
<TRANSISTOR>			
Q001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q002	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q006	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q007	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q009	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q010	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q018	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q019	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q020	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q021	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q022	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q023	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q025	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q026	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q027	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	



REF. NO.	PART NO.	DESCRIPTION	REMARK				REF. NO.	PART NO.	DESCRIPTION	REMARK			
Q028	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX				R077	1-216-295-11	SHORT	0			
Q029	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX				R078	1-208-797-11	METAL CHIP	4.3K	0.5%	1/10W	
Q030	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX				R079	1-216-025-11	RES-CHIP	100	5%	1/10W	
Q031	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX				R080	1-216-025-11	RES-CHIP	100	5%	1/10W	
Q032	1-801-806-11	TRANSISTOR	DTC144EKA-T146				R081	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
<RESISTOR>							R082	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R001	1-216-117-00	RES-CHIP	680K	5%	1/10W		R086	1-216-051-00	RES-CHIP	1.2K	5%	1/10W	
R002	1-216-051-00	RES-CHIP	1.2K	5%	1/10W		R087	1-216-117-00	RES-CHIP	680K	5%	1/10W	
R003	1-216-295-11	SHORT	0				R090	1-216-025-11	RES-CHIP	100	5%	1/10W	
R007	1-216-041-00	RES-CHIP	470	5%	1/10W		R091	1-216-295-11	SHORT	0			
R008	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W		R093	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	
R009	1-216-049-11	RES-CHIP	1K	5%	1/10W		R094	1-216-051-00	RES-CHIP	1.2K	5%	1/10W	
R010	1-216-295-11	SHORT	0				R098	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R012	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W		R099	1-216-117-00	RES-CHIP	680K	5%	1/10W	
R013	1-216-041-00	RES-CHIP	470	5%	1/10W		R100	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	
R014	1-208-776-11	METAL CHIP	560	0.5%	1/10W		R101	1-216-295-11	SHORT	0			
R016	1-216-013-00	RES-CHIP	33	5%	1/10W		R102	1-216-041-00	RES-CHIP	470	5%	1/10W	
R018	1-216-295-11	SHORT	0				R106	1-216-085-00	RES-CHIP	33K	5%	1/10W	
R019	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		R107	1-216-295-11	SHORT	0			
R020	1-216-049-11	RES-CHIP	1K	5%	1/10W		R108	1-216-017-91	RES-CHIP	47	5%	1/10W	
R021	1-216-049-11	RES-CHIP	1K	5%	1/10W		R109	1-216-295-11	SHORT	0			
R022	1-216-049-11	RES-CHIP	1K	5%	1/10W		R110	1-216-017-91	RES-CHIP	47	5%	1/10W	
R023	1-208-754-11	METAL CHIP	68	0.5%	1/10W		R111	1-216-295-11	SHORT	0			
R024	1-208-776-11	METAL CHIP	560	0.5%	1/10W		R112	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R025	1-208-754-11	METAL CHIP	68	0.5%	1/10W		R113	1-216-033-00	RES-CHIP	220	5%	1/10W	
R026	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		R118	1-216-025-11	RES-CHIP	100	5%	1/10W	
R027	1-208-754-11	METAL CHIP	68	0.5%	1/10W		R119	1-216-085-00	RES-CHIP	33K	5%	1/10W	
R028	1-208-770-11	METAL CHIP	330	0.5%	1/10W		R120	1-216-295-11	SHORT	0			
R029	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W		R121	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	
R030	1-216-049-11	RES-CHIP	1K	5%	1/10W		R122	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	
R032	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		R123	1-216-025-11	RES-CHIP	100	5%	1/10W	
R033	1-208-776-11	METAL CHIP	560	0.5%	1/10W		R124	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R035	1-216-013-00	RES-CHIP	33	5%	1/10W		R125	1-208-762-11	METAL CHIP	150	0.5%	1/10W	
R036	1-216-013-00	RES-CHIP	33	5%	1/10W		R127	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R037	1-216-033-00	RES-CHIP	220	5%	1/10W		R128	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R038	1-208-754-11	METAL CHIP	68	0.5%	1/10W		R129	1-216-025-11	RES-CHIP	100	5%	1/10W	
R039	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W		R130	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	
R040	1-208-754-11	METAL CHIP	68	0.5%	1/10W		R131	1-216-033-00	RES-CHIP	220	5%	1/10W	
R042	1-216-049-11	RES-CHIP	1K	5%	1/10W		R132	1-216-025-11	RES-CHIP	100	5%	1/10W	
R046	1-216-037-00	RES-CHIP	330	5%	1/10W		R133	1-216-025-11	RES-CHIP	100	5%	1/10W	
R048	1-216-025-11	RES-CHIP	100	5%	1/10W		R134	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R050	1-216-049-11	RES-CHIP	1K	5%	1/10W		R135	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	
R052	1-208-754-11	METAL CHIP	68	0.5%	1/10W		R136	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	
R059	1-216-295-11	SHORT	0				R137	1-208-769-11	METAL CHIP	300	0.5%	1/10W	
R060	1-208-754-11	METAL CHIP	68	0.5%	1/10W		R138	1-208-770-11	METAL CHIP	330	0.5%	1/10W	
R061	1-216-025-11	RES-CHIP	100	5%	1/10W		R139	1-216-025-11	RES-CHIP	100	5%	1/10W	
R064	1-216-041-00	RES-CHIP	470	5%	1/10W		R140	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R065	1-216-025-11	RES-CHIP	100	5%	1/10W		R141	1-216-117-00	RES-CHIP	680K	5%	1/10W	
R066	1-216-033-00	RES-CHIP	220	5%	1/10W		R142	1-208-782-11	METAL CHIP	1K	0.5%	1/10W	
R067	1-216-033-00	RES-CHIP	220	5%	1/10W		R143	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R070	1-216-033-00	RES-CHIP	220	5%	1/10W		R144	1-216-041-00	RES-CHIP	470	5%	1/10W	
R072	1-216-295-11	SHORT	0				R145	1-216-085-00	RES-CHIP	33K	5%	1/10W	
R073	1-216-295-11	SHORT	0				R146	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W	
R074	1-216-295-11	SHORT	0				R147	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R075	1-216-295-11	SHORT	0				R148	1-208-769-11	METAL CHIP	300	0.5%	1/10W	
R076	1-216-295-11	SHORT	0				R149	1-216-025-11	RES-CHIP	100	5%	1/10W	
							R150	1-208-762-11	METAL CHIP	150	0.5%	1/10W	

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REF. NO.	PART NO.	DESCRIPTION	REMARK		
R233	1-216-295-11	SHORT	0		
R234	1-216-295-11	SHORT	0		
R235	1-216-295-11	SHORT	0		
R236	1-216-295-11	SHORT	0		
R237	1-216-295-11	SHORT	0		
R238	1-216-295-11	SHORT	0		
R239	1-216-295-11	SHORT	0		
R240	1-216-295-11	SHORT	0		
R241	1-216-295-11	SHORT	0		
R242	1-216-295-11	SHORT	0		
R243	1-216-295-11	SHORT	0		
R244	1-216-295-11	SHORT	0		
R245	1-216-295-11	SHORT	0		
R246	1-216-295-11	SHORT	0		
R247	1-216-295-11	SHORT	0		
R248	1-216-295-11	SHORT	0		
R249	1-216-295-11	SHORT	0		
R250	1-216-295-11	SHORT	0		
R251	1-216-295-11	SHORT	0		
R252	1-216-295-11	SHORT	0		
R253	1-216-295-11	SHORT	0		
R254	1-216-049-11	RES-CHIP	1K	5%	1/10W
R257	1-216-295-11	SHORT	0		
R258	1-216-049-11	RES-CHIP	1K	5%	1/10W
R259	1-216-295-11	SHORT	0		
R260	1-216-295-11	SHORT	0		
R261	1-216-295-11	SHORT	0		
R262	1-216-295-11	SHORT	0		
R263	1-216-295-11	SHORT	0		
R273	1-216-033-00	RES-CHIP	220	5%	1/10W
R274	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
<VIBRATOR>					
X001	1-767-924-21	VIBRATOR, CRYSTAL			
X002	1-767-654-21	VIBRATOR, CRYSTAL			

* A-1131-649-A BR BOARD, COMPLETE					

<CAPACITOR>					
C8301	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C8302	1-163-037-11	CERAMIC CHIP	0.022μF	10%	50V
C8303	1-126-204-11	ELECT CHIP	47μF	20%	16V
C8304	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C8305	1-126-204-11	ELECT CHIP	47μF	20%	16V
C8306	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C8307	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C8308	1-117-681-11	ELECT CHIP	100μF	20%	16V
C8309	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C8310	1-126-204-11	ELECT CHIP	47μF	20%	16V
C8311	1-124-779-00	ELECT CHIP	10μF	20%	16V
C8312	1-163-038-11	CERAMIC CHIP	0.1μF		25V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C8313	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8370	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8314	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8371	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8315	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8372	1-124-779-00	ELECT CHIP	10μF 20% 16V
C8316	1-124-779-00	ELECT CHIP	10μF 20% 16V	C8373	1-126-206-11	ELECT CHIP	100μF 20% 6.3V
C8317	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8374	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8318	1-126-204-11	ELECT CHIP	47μF 20% 16V	C8375	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8319	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8376	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8320	1-126-204-11	ELECT CHIP	47μF 20% 16V	C8377	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8321	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8378	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8322	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8379	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8323	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8380	1-124-779-00	ELECT CHIP	10μF 20% 16V
C8324	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8381	1-126-204-11	ELECT CHIP	47μF 20% 16V
C8325	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8382	1-126-204-11	ELECT CHIP	47μF 20% 16V
C8326	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8383	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8327	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8384	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8328	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8385	1-126-206-11	ELECT CHIP	100μF 20% 6.3V
C8329	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8389	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8330	1-126-204-11	ELECT CHIP	47μF 20% 16V	C8391	1-117-720-11	CERAMIC CHIP	4.7μF 10V
C8331	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8392	1-117-720-11	CERAMIC CHIP	4.7μF 10V
C8332	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8501	1-126-204-11	ELECT CHIP	47μF 20% 16V
C8333	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8504	1-126-206-11	ELECT CHIP	100μF 20% 6.3V
C8334	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8505	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C8335	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8608	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8336	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8610	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8337	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8611	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8338	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8612	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8339	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8613	1-126-204-11	ELECT CHIP	47μF 20% 16V
C8340	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8614	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8341	1-126-204-11	ELECT CHIP	47μF 20% 16V	C8615	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8342	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8616	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
C8343	1-126-204-11	ELECT CHIP	47μF 20% 16V	C8617	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8344	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8618	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8345	1-126-204-11	ELECT CHIP	47μF 20% 16V	C8619	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8346	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8621	1-126-204-11	ELECT CHIP	47μF 20% 16V
C8347	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8622	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C8348	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8623	1-126-204-11	ELECT CHIP	47μF 20% 16V
C8349	1-126-204-11	ELECT CHIP	47μF 20% 16V	C8624	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8350	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8625	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8351	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8626	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8352	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8627	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8353	1-126-204-11	ELECT CHIP	47μF 20% 16V	C8628	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8354	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8629	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8355	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8630	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8356	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8631	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8357	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8632	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8358	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V	C8633	1-126-206-11	ELECT CHIP	100μF 20% 6.3V
C8359	1-126-603-11	ELECT CHIP	4.7μF 20% 35V	C8634	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C8360	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8635	1-163-809-11	CERAMIC CHIP	0.047μF 10% 25V
C8361	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8636	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8362	1-126-204-11	ELECT CHIP	47μF 20% 16V	C8637	1-126-206-11	ELECT CHIP	100μF 20% 6.3V
C8363	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8638	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8364	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8639	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8365	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8640	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8366	1-126-206-11	ELECT CHIP	100μF 20% 6.3V	C8641	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8367	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8642	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8368	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C8643	1-126-204-11	ELECT CHIP	47μF 20% 16V
C8369	1-126-204-11	ELECT CHIP	47μF 20% 16V				

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REF. NO.	PART NO.	DESCRIPTION	REMARK
C8644	1-126-204-11	ELECT CHIP 47μF	20% 16V
C8645	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8646	1-126-204-11	ELECT CHIP 47μF	20% 16V
C8647	1-163-233-11	CERAMIC CHIP 18pF	5% 50V
C8648	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8649	1-163-231-11	CERAMIC CHIP 15pF	5% 50V
C8650	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8651	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8652	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8653	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
C8654	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8655	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8656	1-126-204-11	ELECT CHIP 47μF	20% 16V
C8657	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8658	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8660	1-126-204-11	ELECT CHIP 47μF	20% 16V
C8661	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8662	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
C8663	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8664	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8665	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8666	1-126-204-11	ELECT CHIP 47μF	20% 16V
C8667	1-126-197-11	ELECT CHIP 10μF	20% 50V
C8668	1-126-197-11	ELECT CHIP 10μF	20% 50V
C8669	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8670	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8671	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8672	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8673	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8674	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8675	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8676	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8677	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8678	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8679	1-126-204-11	ELECT CHIP 47μF	20% 16V
C8680	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8681	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C8683	1-126-204-11	ELECT CHIP 47μF	20% 16V
C8684	1-126-204-11	ELECT CHIP 47μF	20% 16V
C8686	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
C8687	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
C8689	1-163-038-11	CERAMIC CHIP 0.1μF	25V

<CONNECTOR>

CN8301	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P
CN8302	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P
CN8503*	1-564-509-11	PLUG, CONNECTOR 6P
CN8504*	1-764-333-11	PLUG, CONNECTOR 10P
CN8505*	1-564-507-11	PLUG, CONNECTOR 4P

<DIODE>

D8301	8-719-422-12	DIODE UDZ-TE-17-3.9B
D8302	8-719-914-43	DIODE DAN202K-T-146
D8501	8-719-914-43	DIODE DAN202K-T-146
D8502	8-719-914-43	DIODE DAN202K-T-146
D8503	8-719-914-43	DIODE DAN202K-T-146

REF. NO.	PART NO.	DESCRIPTION	REMARK
<FERRITE BEAD>			
FB8301	1-414-234-22	INDUCTOR	0μH
FB8302	1-414-234-22	INDUCTOR	0μH
FB8303	1-414-234-22	INDUCTOR	0μH
FB8304	1-414-234-22	INDUCTOR	0μH
FB8305	1-414-234-22	INDUCTOR	0μH
FB8501	1-414-234-22	INDUCTOR	0μH
FB8502	1-414-234-22	INDUCTOR	0μH
FB8503	1-414-234-22	INDUCTOR	0μH
FB8701	1-414-234-22	INDUCTOR	0μH
FB8702	1-414-234-22	INDUCTOR	0μH
FB8703	1-414-234-22	INDUCTOR	0μH
FB8704	1-414-234-22	INDUCTOR	0μH
FB8706	1-414-234-22	INDUCTOR	0μH
FB8707	1-414-234-22	INDUCTOR	0μH
FB8708	1-414-234-22	INDUCTOR	0μH
FB8709	1-414-234-22	INDUCTOR	0μH
FB8710	1-414-234-22	INDUCTOR	0μH
<FILTER>			
FL8301	1-233-877-11	FILTER, LOW PASS	
FL8302	1-233-504-21	FILTER, LOW PASS	
FL8303	1-233-504-21	FILTER, LOW PASS	
FL8304	1-234-112-21	FILTER, LOW PASS	
FL8305	1-234-112-21	FILTER, LOW PASS	
FL8306	1-233-736-21	FILTER, EMI	
FL8307	1-233-736-21	FILTER, EMI	
FL8308	1-233-736-21	FILTER, EMI	
FL8309	1-234-113-21	FILTER, LOW PASS	
FL8510	1-233-945-21	FILTER, LOW PASS	
FL8511	1-233-945-21	FILTER, LOW PASS	
FL8512	1-233-945-21	FILTER, LOW PASS	
FL8513	1-233-876-11	FILTER, LOW PASS	
FL8514	1-233-944-21	FILTER, LOW PASS	
FL8515	1-233-944-21	FILTER, LOW PASS	
<IC>			
IC8301	8-759-447-90	IC TLC5733AIPM	
IC8302	8-759-669-78	IC TLC2933IPWR	
IC8303	8-759-669-75	IC TLC2932IPWR	
IC8304	8-759-665-38	IC MB81F161622C-80FN	
IC8305	8-759-564-49	IC TC7W53FU(TE12R)	
IC8306	8-752-398-47	IC CXD2090Q	
IC8308	8-759-388-31	IC PQ20VZ1U	
IC8511	8-759-523-16	IC TC74AC157FT(EL)	
IC8513	8-759-082-57	IC TC7W04FU-TE12L	
IC8514	8-752-395-93	IC CXD2087Q	
IC8515	8-759-478-46	IC MSM548332-25TS-K	
IC8516	8-759-485-79	IC TC7SET08FU(TE85R)	
IC8517	8-759-478-46	IC MSM548332-25TS-K	
IC8518	8-759-669-75	IC TLC2932IPWR	
IC8519	8-759-564-49	IC TC7W53FU(TE12R)	
IC8520	8-759-485-79	IC TC7SET08FU(TE85R)	
IC8521	8-759-523-16	IC TC74AC157FT(EL)	
IC8523	8-759-671-94	IC MC74HC4053AFEL	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC8524	8-752-388-98	IC CXD2303AQ-TL		Q8537	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
		<INDUCTOR>		Q8539	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L8301	1-469-555-21	INDUCTOR 10μH		Q8540	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L8304	1-469-555-21	INDUCTOR 10μH		Q8541	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L8305	1-469-555-21	INDUCTOR 10μH		Q8542	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L8306	1-469-555-21	INDUCTOR 10μH					
L8307	1-469-555-21	INDUCTOR 10μH		Q8543	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
				Q8544	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L8308	1-469-555-21	INDUCTOR 10μH		Q8545	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L8309	1-469-555-21	INDUCTOR 10μH		Q8546	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L8312	1-469-555-21	INDUCTOR 10μH		Q8547	1-801-806-11	TRANSISTOR DTC144EKA-T146	
L8313	1-469-555-21	INDUCTOR 10μH					
L8315	1-469-555-21	INDUCTOR 10μH		Q8549	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
						<RESISTOR>	
L8316	1-469-555-21	INDUCTOR 10μH		R8301	1-216-117-00	RES-CHIP 680K 5% 1/10W	
L8317	1-469-555-21	INDUCTOR 10μH		R8302	1-216-081-00	RES-CHIP 22K 5% 1/10W	
L8524	1-469-555-21	INDUCTOR 10μH		R8303	1-208-752-11	METAL CHIP 56 0.5% 1/10W	
L8525	1-469-555-21	INDUCTOR 10μH		R8304	1-208-752-11	METAL CHIP 56 0.5% 1/10W	
L8526	1-469-555-21	INDUCTOR 10μH		R8305	1-216-037-00	RES-CHIP 330 5% 1/10W	
L8528	1-469-555-21	INDUCTOR 10μH		R8306	1-216-033-00	RES-CHIP 220 5% 1/10W	
L8529	1-469-555-21	INDUCTOR 10μH		R8307	1-216-021-00	RES-CHIP 68 5% 1/10W	
L8531	1-469-555-21	INDUCTOR 10μH		R8308	1-216-033-00	RES-CHIP 220 5% 1/10W	
L8533	1-469-555-21	INDUCTOR 10μH		R8309	1-208-754-11	METAL CHIP 68 0.5% 1/10W	
L8534	1-469-555-21	INDUCTOR 10μH		R8310	1-208-754-11	METAL CHIP 68 0.5% 1/10W	
		<TRANSISTOR>					
Q8301	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8311	1-216-049-11	RES-CHIP 1K 5% 1/10W	
Q8302	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R8312	1-216-061-00	RES-CHIP 3.3K 5% 1/10W	
Q8303	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R8313	1-208-752-11	METAL CHIP 56 0.5% 1/10W	
Q8304	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8314	1-216-295-11	SHORT 0	
Q8305	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R8315	1-216-295-11	SHORT 0	
Q8306	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8317	1-216-295-11	SHORT 0	
Q8307	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R8318	1-216-295-11	SHORT 0	
Q8308	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8320	1-216-295-11	SHORT 0	
Q8309	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8321	1-216-295-11	SHORT 0	
Q8310	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R8323	1-216-295-11	SHORT 0	
Q8311	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8324	1-216-295-11	SHORT 0	
Q8312	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8325	1-216-071-00	RES-CHIP 8.2K 5% 1/10W	
Q8313	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8326	1-216-295-11	SHORT 0	
Q8315	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8330	1-216-295-11	SHORT 0	
Q8316	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8333	1-208-752-11	METAL CHIP 56 0.5% 1/10W	
Q8317	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8334	1-216-295-11	SHORT 0	
Q8318	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8336	1-216-295-11	SHORT 0	
Q8319	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8339	1-216-295-11	SHORT 0	
Q8320	1-801-806-11	TRANSISTOR DTC144EKA-T146		R8342	1-216-295-11	SHORT 0	
Q8510	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8346	1-216-295-11	SHORT 0	
Q8519	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8347	1-216-295-11	SHORT 0	
Q8520	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8348	1-216-295-11	SHORT 0	
Q8521	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8349	1-216-295-11	SHORT 0	
Q8522	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8350	1-208-795-11	METAL CHIP 3.6K 0.5% 1/10W	
Q8523	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8351	1-216-077-91	RES-CHIP 15K 5% 1/10W	
Q8524	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8352	1-216-025-11	RES-CHIP 100 5% 1/10W	
Q8525	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R8353	1-216-113-00	RES-CHIP 470K 5% 1/10W	
Q8531	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R8354	1-216-071-00	RES-CHIP 8.2K 5% 1/10W	
Q8533	1-801-806-11	TRANSISTOR DTC144EKA-T146		R8355	1-216-025-11	RES-CHIP 100 5% 1/10W	
Q8535	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R8356	1-216-071-00	RES-CHIP 8.2K 5% 1/10W	
				R8357	1-216-089-11	RES-CHIP 47K 5% 1/10W	
				R8358	1-216-077-91	RES-CHIP 15K 5% 1/10W	
				R8359	1-216-077-91	RES-CHIP 15K 5% 1/10W	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R8361	1-216-017-91	RES-CHIP	47 5% 1/10W	R8423	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R8362	1-208-752-11	METAL CHIP	56 0.5% 1/10W	R8424	1-216-097-11	RES-CHIP	100K 5% 1/10W
R8363	1-216-295-11	SHORT	0	R8425	1-216-045-00	RES-CHIP	680 5% 1/10W
R8364	1-216-295-11	SHORT	0	R8426	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R8365	1-208-752-11	METAL CHIP	56 0.5% 1/10W	R8427	1-216-097-11	RES-CHIP	100K 5% 1/10W
R8366	1-208-768-11	METAL CHIP	270 0.5% 1/10W	R8428	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R8367	1-208-794-11	METAL CHIP	3.3K 0.5% 1/10W	R8429	1-216-025-11	RES-CHIP	100 5% 1/10W
R8368	1-208-755-11	METAL CHIP	75 0.5% 1/10W	R8430	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R8369	1-208-752-11	METAL CHIP	56 0.5% 1/10W	R8431	1-216-295-11	SHORT	0
R8370	1-208-752-11	METAL CHIP	56 0.5% 1/10W	R8432	1-216-295-11	SHORT	0
R8371	1-208-755-11	METAL CHIP	75 0.5% 1/10W	R8433	1-216-295-11	SHORT	0
R8372	1-216-646-11	METAL CHIP	620 0.5% 1/10W	R8434	1-216-295-11	SHORT	0
R8373	1-216-017-91	RES-CHIP	47 5% 1/10W	R8435	1-216-295-11	SHORT	0
R8374	1-216-037-00	RES-CHIP	330 5% 1/10W	R8436	1-216-295-11	SHORT	0
R8375	1-216-037-00	RES-CHIP	330 5% 1/10W	R8437	1-216-295-11	SHORT	0
R8376	1-216-097-11	RES-CHIP	100K 5% 1/10W	R8438	1-216-295-11	SHORT	0
R8377	1-216-295-11	SHORT	0	R8439	1-216-049-11	RES-CHIP	1K 5% 1/10W
R8378	1-208-794-11	METAL CHIP	3.3K 0.5% 1/10W	R8440	1-216-295-11	SHORT	0
R8380	1-216-097-11	RES-CHIP	100K 5% 1/10W	R8441	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R8381	1-216-295-11	SHORT	0	R8443	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R8382	1-216-295-11	SHORT	0	R8445	1-216-295-11	SHORT	0
R8383	1-216-047-91	RES-CHIP	820 5% 1/10W	R8446	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8384	1-216-049-11	RES-CHIP	1K 5% 1/10W	R8447	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8385	1-216-117-00	RES-CHIP	680K 5% 1/10W	R8448	1-208-794-11	METAL CHIP	3.3K 0.5% 1/10W
R8386	1-216-117-00	RES-CHIP	680K 5% 1/10W	R8449	1-216-049-11	RES-CHIP	1K 5% 1/10W
R8387	1-216-041-00	RES-CHIP	470 5% 1/10W	R8450	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8388	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W	R8451	1-216-295-11	SHORT	0
R8389	1-216-025-11	RES-CHIP	100 5% 1/10W	R8452	1-216-025-11	RES-CHIP	100 5% 1/10W
R8390	1-216-041-00	RES-CHIP	470 5% 1/10W	R8453	1-216-295-11	SHORT	0
R8391	1-208-776-11	METAL CHIP	560 0.5% 1/10W	R8454	1-208-778-11	METAL CHIP	680 0.5% 1/10W
R8392	1-216-041-00	RES-CHIP	470 5% 1/10W	R8455	1-208-772-11	METAL CHIP	390 0.5% 1/10W
R8393	1-216-049-11	RES-CHIP	1K 5% 1/10W	R8456	1-216-295-11	SHORT	0
R8394	1-216-025-11	RES-CHIP	100 5% 1/10W	R8640	1-216-295-11	SHORT	0
R8395	1-208-782-11	METAL CHIP	1K 0.5% 1/10W	R8644	1-216-295-11	SHORT	0
R8396	1-211-964-11	METAL CHIP	33 0.5% 1/10W	R8645	1-216-295-11	SHORT	0
R8397	1-208-776-11	METAL CHIP	560 0.5% 1/10W	R8646	1-216-295-11	SHORT	0
R8398	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W	R8647	1-216-295-11	SHORT	0
R8399	1-216-049-11	RES-CHIP	1K 5% 1/10W	R8651	1-216-049-11	RES-CHIP	1K 5% 1/10W
R8400	1-216-041-00	RES-CHIP	470 5% 1/10W	R8652	1-216-049-11	RES-CHIP	1K 5% 1/10W
R8401	1-216-025-11	RES-CHIP	100 5% 1/10W	R8653	1-216-049-11	RES-CHIP	1K 5% 1/10W
R8402	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R8656	1-216-295-11	SHORT	0
R8403	1-208-782-11	METAL CHIP	1K 0.5% 1/10W	R8657	1-216-295-11	SHORT	0
R8404	1-211-964-11	METAL CHIP	33 0.5% 1/10W	R8658	1-216-295-11	SHORT	0
R8405	1-208-776-11	METAL CHIP	560 0.5% 1/10W	R8661	1-208-770-11	METAL CHIP	330 0.5% 1/10W
R8406	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W	R8662	1-208-754-11	METAL CHIP	68 0.5% 1/10W
R8407	1-216-295-11	SHORT	0	R8663	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8408	1-216-055-00	RES-CHIP	1.8K 5% 1/10W	R8664	1-208-754-11	METAL CHIP	68 0.5% 1/10W
R8409	1-216-049-11	RES-CHIP	1K 5% 1/10W	R8665	1-208-754-11	METAL CHIP	68 0.5% 1/10W
R8410	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R8666	1-216-025-11	RES-CHIP	100 5% 1/10W
R8411	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W	R8667	1-208-754-11	METAL CHIP	68 0.5% 1/10W
R8412	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R8668	1-208-754-11	METAL CHIP	68 0.5% 1/10W
R8413	1-216-025-11	RES-CHIP	100 5% 1/10W	R8669	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R8414	1-216-097-11	RES-CHIP	100K 5% 1/10W	R8670	1-208-754-11	METAL CHIP	68 0.5% 1/10W
R8417	1-216-049-11	RES-CHIP	1K 5% 1/10W	R8671	1-208-754-11	METAL CHIP	68 0.5% 1/10W
R8420	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R8673	1-216-025-11	RES-CHIP	100 5% 1/10W
R8421	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R8674	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R8422	1-216-025-11	RES-CHIP	100 5% 1/10W	R8675	1-216-085-00	RES-CHIP	33K 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
R8677	1-216-295-11	SHORT	0		R8751	1-216-025-11	RES-CHIP	100	5% 1/10W
R8678	1-216-295-11	SHORT	0		R8752	1-216-025-11	RES-CHIP	100	5% 1/10W
R8679	1-216-025-11	RES-CHIP	100	5% 1/10W	R8753	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R8680	1-216-025-11	RES-CHIP	100	5% 1/10W	R8754	1-216-025-11	RES-CHIP	100	5% 1/10W
R8684	1-216-295-11	SHORT	0		R8755	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R8685	1-216-025-11	RES-CHIP	100	5% 1/10W	R8756	1-216-041-00	RES-CHIP	470	5% 1/10W
R8692	1-216-049-11	RES-CHIP	1K	5% 1/10W	R8757	1-216-041-00	RES-CHIP	470	5% 1/10W
R8698	1-216-025-11	RES-CHIP	100	5% 1/10W	R8758	1-216-013-00	RES-CHIP	33	5% 1/10W
R8701	1-216-025-11	RES-CHIP	100	5% 1/10W	R8759	1-216-025-11	RES-CHIP	100	5% 1/10W
R8702	1-216-295-11	SHORT	0		R8760	1-216-025-11	RES-CHIP	100	5% 1/10W
R8703	1-216-073-00	RES-CHIP	10K	5% 1/10W	R8761	1-216-025-11	RES-CHIP	100	5% 1/10W
R8704	1-216-295-11	SHORT	0		R8762	1-216-089-11	RES-CHIP	47K	5% 1/10W
R8705	1-216-025-11	RES-CHIP	100	5% 1/10W	R8763	1-216-089-11	RES-CHIP	47K	5% 1/10W
R8706	1-216-041-00	RES-CHIP	470	5% 1/10W	R8764	1-208-774-11	METAL CHIP	470	0.5% 1/10W
R8707	1-216-051-00	RES-CHIP	1.2K	5% 1/10W	R8765	1-208-774-11	METAL CHIP	470	0.5% 1/10W
R8708	1-216-117-00	RES-CHIP	680K	5% 1/10W	R8766	1-216-089-11	RES-CHIP	47K	5% 1/10W
R8709	1-216-025-11	RES-CHIP	100	5% 1/10W	R8767	1-216-089-11	RES-CHIP	47K	5% 1/10W
R8710	1-216-295-11	SHORT	0		R8768	1-216-089-11	RES-CHIP	47K	5% 1/10W
R8711	1-216-295-11	SHORT	0		R8769	1-216-089-11	RES-CHIP	47K	5% 1/10W
R8712	1-216-295-11	SHORT	0		R8770	1-216-646-11	METAL CHIP	620	0.5% 1/10W
R8714	1-208-794-11	METAL CHIP	3.3K	0.5% 1/10W	R8771	1-216-049-11	RES-CHIP	1K	5% 1/10W
R8715	1-216-025-11	RES-CHIP	100	5% 1/10W	R8772	1-216-635-11	METAL CHIP	220	0.5% 1/10W
R8716	1-208-799-11	METAL CHIP	5.1K	0.5% 1/10W	R8773	1-208-762-11	METAL CHIP	150	0.5% 1/10W
R8717	1-208-768-11	METAL CHIP	270	0.5% 1/10W	R8774	1-208-762-11	METAL CHIP	150	0.5% 1/10W
R8718	1-208-806-11	METAL CHIP	10K	0.5% 1/10W	R8775	1-216-049-11	RES-CHIP	1K	5% 1/10W
R8719	1-216-025-11	RES-CHIP	100	5% 1/10W	R8776	1-216-097-11	RES-CHIP	100K	5% 1/10W
R8720	1-216-646-11	METAL CHIP	620	0.5% 1/10W	R8777	1-216-635-11	METAL CHIP	220	0.5% 1/10W
R8721	1-216-073-00	RES-CHIP	10K	5% 1/10W	R8778	1-216-655-11	METAL CHIP	1.5K	0.5% 1/10W
R8722	1-216-635-11	METAL CHIP	220	0.5% 1/10W	R8779	1-216-655-11	METAL CHIP	1.5K	0.5% 1/10W
R8723	1-216-635-11	METAL CHIP	220	0.5% 1/10W	R8780	1-216-041-00	RES-CHIP	470	5% 1/10W
R8724	1-216-635-11	METAL CHIP	220	0.5% 1/10W	R8781	1-208-782-11	METAL CHIP	1K	0.5% 1/10W
R8725	1-216-295-11	SHORT	0		R8782	1-208-782-11	METAL CHIP	1K	0.5% 1/10W
R8726	1-216-295-11	SHORT	0		R8783	1-208-758-11	METAL CHIP	100	0.5% 1/10W
R8727	1-216-295-11	SHORT	0		R8784	1-208-755-11	METAL CHIP	75	0.5% 1/10W
R8728	1-216-049-11	RES-CHIP	1K	5% 1/10W	R8785	1-208-750-11	METAL CHIP	47	0.5% 1/10W
R8729	1-216-049-11	RES-CHIP	1K	5% 1/10W	R8786	1-208-750-11	METAL CHIP	47	0.5% 1/10W
R8730	1-216-049-11	RES-CHIP	1K	5% 1/10W	R8787	1-208-750-11	METAL CHIP	47	0.5% 1/10W
R8731	1-208-762-11	METAL CHIP	150	0.5% 1/10W	R8788	1-208-750-11	METAL CHIP	47	0.5% 1/10W
R8732	1-208-762-11	METAL CHIP	150	0.5% 1/10W	R8789	1-208-754-11	METAL CHIP	68	0.5% 1/10W
R8733	1-208-762-11	METAL CHIP	150	0.5% 1/10W	R8790	1-208-754-11	METAL CHIP	68	0.5% 1/10W
R8734	1-216-655-11	METAL CHIP	1.5K	0.5% 1/10W	R8791	1-216-013-00	RES-CHIP	33	5% 1/10W
R8735	1-216-655-11	METAL CHIP	1.5K	0.5% 1/10W	R8792	1-216-013-00	RES-CHIP	33	5% 1/10W
R8736	1-216-655-11	METAL CHIP	1.5K	0.5% 1/10W	R8793	1-208-754-11	METAL CHIP	68	0.5% 1/10W
R8737	1-216-097-11	RES-CHIP	100K	5% 1/10W	R8794	1-208-754-11	METAL CHIP	68	0.5% 1/10W
R8738	1-216-097-11	RES-CHIP	100K	5% 1/10W	R8797	1-216-295-11	SHORT	0	
R8739	1-216-097-11	RES-CHIP	100K	5% 1/10W	R8801	1-216-295-11	SHORT	0	
R8740	1-216-025-11	RES-CHIP	100	5% 1/10W	R8802	1-216-295-11	SHORT	0	
R8741	1-208-774-11	METAL CHIP	470	0.5% 1/10W	R8804	1-216-073-00	RES-CHIP	10K	5% 1/10W
R8742	1-208-774-11	METAL CHIP	470	0.5% 1/10W	R8811	1-216-097-11	RES-CHIP	100K	5% 1/10W
R8743	1-208-774-11	METAL CHIP	470	0.5% 1/10W	R8826	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R8744	1-208-774-11	METAL CHIP	470	0.5% 1/10W	R8827	1-216-073-00	RES-CHIP	10K	5% 1/10W
R8745	1-208-762-11	METAL CHIP	150	0.5% 1/10W					
R8746	1-208-762-11	METAL CHIP	150	0.5% 1/10W					
R8747	1-216-025-11	RES-CHIP	100	5% 1/10W					
R8748	1-216-041-00	RES-CHIP	470	5% 1/10W					
R8749	1-216-057-00	RES-CHIP	2.2K	5% 1/10W					
R8750	1-216-073-00	RES-CHIP	10K	5% 1/10W					



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<VIBRATOR>				C545	1-126-964-11	ELECT	10μF 20% 50V
X8501	1-767-924-21	VIBRATOR, CRYSTAL		C546	1-163-145-00	CERAMIC CHIP	0.0015μF 5% 50V
				C548	1-163-012-00	CERAMIC CHIP	0.0018μF 5% 50V
				C550	1-163-127-00	CERAMIC CHIP	270pF 5% 50V
				C551	1-163-038-11	CERAMIC CHIP	0.1μF 25V
*****				C552	1-126-934-11	ELECT	220μF 20% 16V
* A-1299-347-A A BOARD, COMPLETE				C553	1-126-960-11	ELECT	1μF 20% 50V
*****				C554	1-163-809-11	CERAMIC CHIP	0.047μF 10% 25V
4-382-854-11 SCREW (M3X10), P, SW (+)				C555	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
				C557	1-126-960-11	ELECT	1μF 20% 50V
				C558	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
<CAPACITOR>				C559	1-126-963-11	ELECT	4.7μF 20% 50V
C501	1-126-933-11	ELECT	100μF 20% 16V	C560	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C502	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C561	1-104-664-11	ELECT	47μF 20% 25V
C503	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C562	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C504	1-104-665-11	ELECT	100μF 20% 25V	C563	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C505	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C564	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C506	1-164-505-11	CERAMIC CHIP	2.2μF 16V	C567	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C507	1-126-933-11	ELECT	100μF 20% 16V	C569	1-163-809-11	CERAMIC CHIP	0.047μF 10% 25V
C508	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C570	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
C509	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C571	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C510	1-126-916-11	ELECT	1000μF 20% 6.3V	C572	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C511	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C574	1-126-960-11	ELECT	1μF 20% 50V
C512	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C575	1-109-982-11	CERAMIC CHIP	1μF 10% 10V
C513	1-126-933-11	ELECT	100μF 20% 16V	C576	1-164-182-11	CERAMIC CHIP	0.0033μF 10% 50V
C514	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C577	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C515	1-104-664-11	ELECT	47μF 20% 25V	C580	1-164-182-11	CERAMIC CHIP	0.0033μF 10% 50V
C516	1-104-664-11	ELECT	47μF 20% 25V	C581	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C517	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C582	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C518	1-126-933-11	ELECT	100μF 20% 16V	C583	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C519	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C584	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C520	1-126-964-11	ELECT	10μF 20% 50V	C585	1-126-933-11	ELECT	100μF 20% 16V
C521	1-163-145-00	CERAMIC CHIP	0.0015μF 5% 50V	C586	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C522	1-163-143-00	CERAMIC CHIP	0.0012μF 5% 50V	C587	1-104-664-11	ELECT	47μF 20% 25V
C523	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C588	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C524	1-104-664-11	ELECT	47μF 20% 25V	C589	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C525	1-163-275-11	CERAMIC CHIP	0.001μF 5% 50V	C590	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C526	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	C591	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C527	1-126-933-11	ELECT	100μF 20% 16V	C592	1-104-664-11	ELECT	47μF 20% 25V
C528	1-126-916-11	ELECT	1000μF 20% 6.3V	C593	1-126-963-11	ELECT	4.7μF 20% 50V
C529	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C595	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C530	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C596	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C531	1-126-933-11	ELECT	100μF 20% 16V	C598	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C532	1-126-933-11	ELECT	100μF 20% 16V	C599	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C533	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C600	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C534	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C601	1-164-489-11	CERAMIC CHIP	0.22μF 10% 16V
C535	1-104-665-11	ELECT	100μF 20% 25V	C602	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C536	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C603	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C537	1-104-664-11	ELECT	47μF 20% 25V	C604	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C538	1-126-964-11	ELECT	10μF 20% 50V	C605	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C539	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C606	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C540	1-126-918-11	ELECT	4700μF 20% 6.3V	C607	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C541	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C608	1-126-964-11	ELECT	10μF 20% 50V
C542	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C610	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C543	1-126-960-11	ELECT	1μF 20% 50V	C611	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C544	1-163-243-11	CERAMIC CHIP	47pF 5% 50V	C612	1-104-664-11	ELECT	47μF 20% 25V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C613	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C674	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C614	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C675	1-110-501-11	CERAMIC CHIP	0.33μF 10% 16V
C615	1-126-933-11	ELECT	100μF 20% 16V	C676	1-104-664-11	ELECT	47μF 20% 25V
C616	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C677	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C617	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C678	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C618	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C679	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C619	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C680	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C621	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C681	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C622	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C683	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C623	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C684	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
C624	1-104-664-11	ELECT	47μF 20% 25V	C685	1-126-960-11	ELECT	1μF 20% 50V
C625	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C686	1-126-965-11	ELECT	22μF 20% 50V
C626	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C687	1-126-960-11	ELECT	1μF 20% 50V
C627	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C688	1-126-960-11	ELECT	1μF 20% 50V
C628	1-104-664-11	ELECT	47μF 20% 25V	C689	1-126-965-11	ELECT	22μF 20% 50V
C629	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C690	1-126-960-11	ELECT	1μF 20% 50V
C630	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C691	1-126-964-11	ELECT	10μF 20% 50V
C631	1-164-346-11	CERAMIC CHIP	1μF 16V	C692	1-126-964-11	ELECT	10μF 20% 50V
C632	1-109-982-11	CERAMIC CHIP	1μF 10% 10V	C693	1-126-965-11	ELECT	22μF 20% 50V
C636	1-163-263-11	CERAMIC CHIP	330pF 5% 50V	C694	1-126-965-11	ELECT	22μF 20% 50V
C637	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C695	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C638	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C696	1-126-965-11	ELECT	22μF 20% 50V
C639	1-126-933-11	ELECT	100μF 20% 16V	C697	1-126-965-11	ELECT	22μF 20% 50V
C640	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C698	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C641	1-104-664-11	ELECT	47μF 20% 25V	C699	1-126-965-11	ELECT	22μF 20% 50V
C642	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C700	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C643	1-163-259-91	CERAMIC CHIP	220pF 5% 50V	C701	1-126-965-11	ELECT	22μF 20% 50V
C644	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C702	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C645	1-126-965-11	ELECT	22μF 20% 50V	C703	1-164-182-11	CERAMIC CHIP	0.0033μF 10% 50V
C646	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C704	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C647	1-104-664-11	ELECT	47μF 20% 25V	C705	1-164-182-11	CERAMIC CHIP	0.0033μF 10% 50V
C648	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C706	1-126-965-11	ELECT	22μF 20% 50V
C649	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C707	1-126-960-11	ELECT	1μF 20% 50V
C650	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C708	1-126-960-11	ELECT	1μF 20% 50V
C651	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C709	1-126-965-11	ELECT	22μF 20% 50V
C652	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C710	1-126-960-11	ELECT	1μF 20% 50V
C653	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C711	1-126-960-11	ELECT	1μF 20% 50V
C654	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C712	1-126-965-11	ELECT	22μF 20% 50V
C655	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C713	1-126-960-11	ELECT	1μF 20% 50V
C656	1-126-964-11	ELECT	10μF 20% 50V	C714	1-126-960-11	ELECT	1μF 20% 50V
C657	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V	C715	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C658	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C716	1-126-960-11	ELECT	1μF 20% 50V
C659	1-104-664-11	ELECT	47μF 20% 25V	C717	1-126-960-11	ELECT	1μF 20% 50V
C660	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V	C718	1-126-935-11	ELECT	470μF 20% 16V
C661	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C720	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C662	1-126-965-11	ELECT	22μF 20% 50V	C721	1-126-964-11	ELECT	10μF 20% 50V
C663	1-126-965-11	ELECT	22μF 20% 50V	C722	1-104-664-11	ELECT	47μF 20% 25V
C664	1-104-664-11	ELECT	47μF 20% 25V	C723	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C665	1-104-664-11	ELECT	47μF 20% 25V	C724	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V
C666	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C725	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C667	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C771	1-126-965-11	ELECT	22μF 20% 50V
C668	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C772	1-126-965-11	ELECT	22μF 20% 50V
C669	1-126-935-11	ELECT	470μF 20% 16V	C773	1-126-960-11	ELECT	1μF 20% 50V
C670	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C774	1-126-960-11	ELECT	1μF 20% 50V
C671	1-104-664-11	ELECT	47μF 20% 25V	C775	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C672	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1001	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C673	1-126-965-11	ELECT	22μF 20% 50V	C1002	1-163-038-11	CERAMIC CHIP	0.1μF 25V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1003	1-104-664-11	ELECT	47μF 20% 25V	C1317	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1005	1-104-664-11	ELECT	47μF 20% 25V	C1321	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
C1006	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1323	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C1007	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1325	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C1012	1-163-235-11	CERAMIC CHIP	22pF 5% 50V	C1326	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1013	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1327	1-126-963-11	ELECT	4.7μF 20% 50V
C1014	1-163-235-11	CERAMIC CHIP	22pF 5% 50V	C1328	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1015	1-163-235-11	CERAMIC CHIP	22pF 5% 50V	C1329	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1016	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1330	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1017	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1331	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
C1019	1-164-489-11	CERAMIC CHIP	0.22μF 10% 16V	C1332	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C1020	1-164-346-11	CERAMIC CHIP	1μF 16V	C1334	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1021	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C1335	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1022	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1336	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1023	1-126-935-11	ELECT	470μF 20% 6.3V	C1337	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1025	1-126-965-11	ELECT	22μF 20% 50V	C1338	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1026	1-163-809-11	CERAMIC CHIP	0.047μF 10% 25V	C1339	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1027	1-110-501-11	CERAMIC CHIP	0.33μF 10% 16V	C1340	1-126-960-11	ELECT	1μF 20% 50V
C1029	1-164-346-11	CERAMIC CHIP	1μF 16V	C1341	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
C1030	1-109-982-11	CERAMIC CHIP	1μF 10% 10V	C1342	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C1031	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1343	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C1032	1-104-664-11	ELECT	47μF 20% 25V	C1344	1-104-664-11	ELECT	47μF 20% 25V
C1033	1-126-964-11	ELECT	10μF 20% 50V	C1345	1-104-664-11	ELECT	47μF 20% 25V
C1034	1-164-346-11	CERAMIC CHIP	1μF 16V	C1346	1-104-664-11	ELECT	47μF 20% 25V
C1035	1-163-237-11	CERAMIC CHIP	27pF 5% 50V	C1347	1-104-664-11	ELECT	47μF 20% 25V
C1036	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C1348	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1037	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1349	1-163-231-11	CERAMIC CHIP	15pF 5% 50V
C1038	1-104-664-11	ELECT	47μF 20% 25V	C1351	1-126-934-11	ELECT	220μF 20% 16V
C1039	1-164-346-11	CERAMIC CHIP	1μF 16V	C1352	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1040	1-163-237-11	CERAMIC CHIP	27pF 5% 50V	C1353	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1041	1-163-233-11	CERAMIC CHIP	18pF 5% 50V	C1354	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1042	1-163-233-11	CERAMIC CHIP	18pF 5% 50V	C1355	1-104-664-11	ELECT	47μF 20% 25V
C1043	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C1357	1-126-934-11	ELECT	220μF 20% 16V
C1044	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	C1358	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1045	1-163-143-00	CERAMIC CHIP	0.0012μF 5% 50V	C1359	1-104-664-11	ELECT	47μF 20% 25V
C1046	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1363	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1048	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1364	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1049	1-104-664-11	ELECT	47μF 20% 25V	C1376	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1050	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1380	1-109-982-11	CERAMIC CHIP	1μF 10% 10V
C1051	1-104-664-11	ELECT	47μF 20% 25V	C1381	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C1052	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C1383	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1058	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1385	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
C1301	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1389	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C1302	1-104-664-11	ELECT	47μF 20% 25V	C1392	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1303	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1400	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C1305	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1401	1-126-963-11	ELECT	4.7μF 20% 50V
C1306	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1402	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1307	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C1403	1-163-135-00	CERAMIC CHIP	560pF 5% 50V
C1308	1-117-720-11	CERAMIC CHIP	4.7μF 10V	C1405	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1309	1-163-227-11	CERAMIC CHIP	10pF 50V	C1406	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C1310	1-163-227-11	CERAMIC CHIP	10pF 50V	C1407	1-164-344-11	CERAMIC CHIP	0.068μF 10% 25V
C1311	1-109-982-11	CERAMIC CHIP	1μF 10% 10V	C1408	1-163-019-00	CERAMIC CHIP	0.0068μF 10% 50V
C1312	1-163-227-11	CERAMIC CHIP	10pF 50V	C1409	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1313	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1410	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
C1315	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C1411	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1316	1-117-720-11	CERAMIC CHIP	4.7μF 10V	C1413	1-126-960-11	ELECT	1μF 20% 50V
				C1414	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1415	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1613	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1417	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1614	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1418	1-104-664-11	ELECT	47μF 20% 25V	C1615	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C1419	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1617	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1420	1-104-664-11	ELECT	47μF 20% 25V	C1619	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C1421	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1621	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1422	1-163-231-11	CERAMIC CHIP	15pF 5% 50V	C1623	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C1423	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1624	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C1424	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1626	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1425	1-104-664-11	ELECT	47μF 20% 25V	C1628	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C1426	1-117-720-11	CERAMIC CHIP	4.7μF 10V	C1629	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C1427	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C1631	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1428	1-126-934-11	ELECT	220μF 20% 16V	C1633	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C1429	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1634	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C1430	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C1635	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1431	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1636	1-164-182-11	CERAMIC CHIP	0.0033μF 10% 50V
C1432	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C1637	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C1433	1-163-038-11	CERAMIC CHIP	0.1μF 25V			<FILTER BLOCK>	
C1434	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	CM501	1-467-554-21	FILTER BLOCK, COMB	
C1435	1-163-133-00	CERAMIC CHIP	470pF 5% 50V			<CONNECTOR>	
C1436	1-163-231-11	CERAMIC CHIP	15pF 5% 50V	CN501 *	1-564-506-11	PLUG, CONNECTOR 3P	
C1437	1-163-231-11	CERAMIC CHIP	15pF 5% 50V	CN502 *	1-564-506-11	PLUG, CONNECTOR 3P	
C1438	1-163-038-11	CERAMIC CHIP	0.1μF 25V	CN503 *	1-564-511-11	PLUG, CONNECTOR 8P	
C1439	1-109-982-11	CERAMIC CHIP	1μF 10% 10V	CN504 *	1-564-512-11	PLUG, CONNECTOR 9P	
C1440	1-163-038-11	CERAMIC CHIP	0.1μF 25V	CN505 *	1-564-510-11	PLUG, CONNECTOR 7P	
C1441	1-163-275-11	CERAMIC CHIP	0.001μF 5% 50V	CN506 *	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C1442	1-104-664-11	ELECT	47μF 20% 25V	CN507	1-695-915-11	TAB (CONTACT)	
C1443	1-163-038-11	CERAMIC CHIP	0.1μF 25V	CN508 *	1-564-507-11	PLUG, CONNECTOR 4P	
C1455	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	CN509 *	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C1456	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	CN510 *	1-564-510-11	PLUG, CONNECTOR 7P	
C1457	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	CN511	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P	
C1462	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	CN512 *	1-764-333-11	PLUG, CONNECTOR 10P	
C1463	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	CN513	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P	
C1464	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	CN514 *	1-564-508-11	PLUG, CONNECTOR 5P	
C1465	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	CN515	1-764-334-11	PLUG, CONNECTOR 11P	
C1466	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	CN516	1-573-978-21	CONNECTOR, BOARD TO BOARD 11P	
C1467	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	CN517 *	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C1470	1-104-664-11	ELECT	47μF 20% 25V	CN518	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P	
C1471	1-104-664-11	ELECT	47μF 20% 25V	CN519 *	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C1472	1-104-664-11	ELECT	47μF 20% 25V	CN520 *	1-691-616-21	CONNECTOR, BOARD TO BOARD 15P	
C1481	1-109-982-11	CERAMIC CHIP	1μF 10% 10V	CN521	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P	
C1482	1-104-664-11	ELECT	47μF 20% 25V	CN522	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P	
C1483	1-104-664-11	ELECT	47μF 20% 25V	CN523	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P	
C1484	1-126-934-11	ELECT	220μF 20% 16V	CN524 *	1-564-509-11	PLUG, CONNECTOR 6P	
C1485	1-163-038-11	CERAMIC CHIP	0.1μF 25V	CN525 *	1-564-511-11	PLUG, CONNECTOR 8P	
C1601	1-163-038-11	CERAMIC CHIP	0.1μF 25V	CN526 *	1-564-510-11	PLUG, CONNECTOR 7P	
C1602	1-163-016-00	CERAMIC CHIP	0.0039μF 10% 50V	CN527 *	1-564-509-11	PLUG, CONNECTOR 6P	
C1603	1-163-016-00	CERAMIC CHIP	0.0039μF 10% 50V	CN529 *	1-564-506-11	PLUG, CONNECTOR 3P	
C1604	1-163-016-00	CERAMIC CHIP	0.0039μF 10% 50V	CN530 *	1-764-333-11	PLUG, CONNECTOR 10P	
C1605	1-163-016-00	CERAMIC CHIP	0.0039μF 10% 50V				
C1606	1-163-038-11	CERAMIC CHIP	0.1μF 25V				
C1607	1-164-182-11	CERAMIC CHIP	0.0033μF 10% 50V				
C1608	1-163-016-00	CERAMIC CHIP	0.0039μF 10% 50V				
C1609	1-163-016-00	CERAMIC CHIP	0.0039μF 10% 50V				
C1610	1-163-038-11	CERAMIC CHIP	0.1μF 25V				
C1611	1-163-016-00	CERAMIC CHIP	0.0039μF 10% 50V				
C1612	1-163-016-00	CERAMIC CHIP	0.0039μF 10% 50V				

KP-57XBR10W/65XBR10W

RM-Y907

RM-Y907



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>					
D501	8-719-073-01	DIODE MA111-TX		D558	8-719-977-81	DIODE UDZ-TE-17-33B	
D502	8-719-158-15	DIODE UDZ-TE-17-5.6B		D559	8-719-977-28	DIODE UDZS-TE17-10B	
D503	8-719-073-01	DIODE MA111-TX		D560	8-719-977-28	DIODE UDZS-TE17-10B	
D504	8-719-073-01	DIODE MA111-TX		D561	8-719-158-15	DIODE UDZ-TE-17-5.6B	
D505	8-719-073-01	DIODE MA111-TX		D1001	8-719-073-01	DIODE MA111-TX	
D506	8-719-056-84	DIODE UDZ-TE-17-7.5		D1002	8-719-073-01	DIODE MA111-TX	
D508	8-719-073-01	DIODE MA111-TX		D1003	8-719-073-01	DIODE MA111-TX	
D509	8-719-056-84	DIODE UDZ-TE-17-7.5		D1005	8-719-073-01	DIODE MA111-TX	
D511	8-719-073-01	DIODE MA111-TX		D1006	8-719-073-01	DIODE MA111-TX	
D512	8-719-073-01	DIODE MA111-TX		D1007	8-719-073-01	DIODE MA111-TX	
D513	8-719-073-01	DIODE MA111-TX		D1008	8-719-073-01	DIODE MA111-TX	
D514	8-719-073-01	DIODE MA111-TX		D1009	8-719-073-01	DIODE MA111-TX	
D515	8-719-158-15	DIODE UDZ-TE-17-5.6B		D1601	8-719-976-99	DIODE UDZ-TE-17-5.1B	
D516	8-719-158-15	DIODE UDZ-TE-17-5.6B		D1602	8-719-976-99	DIODE UDZ-TE-17-5.1B	
D517	8-719-158-15	DIODE UDZ-TE-17-5.6B		D1603	8-719-976-99	DIODE UDZ-TE-17-5.1B	
D518	8-719-073-01	DIODE MA111-TX		D1604	8-719-976-99	DIODE UDZ-TE-17-5.1B	
D519	8-719-977-28	DIODE UDZS-TE17-10B		D1605	8-719-976-99	DIODE UDZ-TE-17-5.1B	
D520	8-719-977-28	DIODE UDZS-TE17-10B		D1614	8-719-976-99	DIODE UDZ-TE-17-5.1B	
D521	8-719-158-15	DIODE UDZ-TE-17-5.6B		D1615	8-719-976-99	DIODE UDZ-TE-17-5.1B	
D522	8-719-977-28	DIODE UDZS-TE17-10B		D1616	8-719-976-99	DIODE UDZ-TE-17-5.1B	
D523	8-719-073-01	DIODE MA111-TX		D1618	8-719-073-01	DIODE MA111-TX	
D524	8-719-977-28	DIODE UDZS-TE17-10B		D1620	8-719-073-01	DIODE MA111-TX	
D525	8-719-977-28	DIODE UDZS-TE17-10B		D1623	8-719-073-01	DIODE MA111-TX	
D526	8-719-977-28	DIODE UDZS-TE17-10B		D1625	8-719-073-01	DIODE MA111-TX	
D527	8-719-977-28	DIODE UDZS-TE17-10B		D1626	8-719-073-01	DIODE MA111-TX	
D528	8-719-977-28	DIODE UDZS-TE17-10B		D1628	8-719-073-01	DIODE MA111-TX	
D529	8-719-977-28	DIODE UDZS-TE17-10B		D1630	8-719-073-01	DIODE MA111-TX	
D530	8-719-073-01	DIODE MA111-TX		D1632	8-719-073-01	DIODE MA111-TX	
D531	8-719-073-01	DIODE MA111-TX				<IC>	
D532	8-719-977-28	DIODE UDZS-TE17-10B		IC501	8-759-701-79	IC NJM7812FA	
D533	8-719-977-28	DIODE UDZS-TE17-10B		IC502	8-759-232-74	IC TC74HC163AF(EL)	
D534	8-719-977-28	DIODE UDZS-TE17-10B		IC503	8-759-390-57	IC LM2940CT-5.0	
D535	8-719-977-28	DIODE UDZS-TE17-10B		IC504	8-759-513-71	IC PQ05RF21	
D536	8-719-073-01	DIODE MA111-TX		IC505	8-759-198-03	IC PQ09RF21	
D537	8-719-977-28	DIODE UDZS-TE17-10B		IC506	8-759-520-49	IC PQ30RV21	
D538	8-719-977-28	DIODE UDZS-TE17-10B		IC507	8-759-083-85	IC LA7856	
D539	8-719-977-28	DIODE UDZS-TE17-10B		IC508	8-759-032-23	IC TC74HC74AF(EL)	
D540	8-719-977-28	DIODE UDZS-TE17-10B		IC509	8-759-011-64	IC TC74HC4052AF(EL)	
D541	8-719-977-28	DIODE UDZS-TE17-10B		IC510	8-759-988-13	IC LM393PS-E20	
D542	8-719-977-28	DIODE UDZS-TE17-10B		IC511	8-752-086-33	IC CXA2101AQ-TL	
D543	8-719-977-28	DIODE UDZS-TE17-10B		IC512	8-752-378-35	IC CXD2018Q-T6	
D544	8-719-977-28	DIODE UDZS-TE17-10B		IC513	8-759-485-79	IC TC7SET08FU(TE85L)	
D545	8-719-977-28	DIODE UDZS-TE17-10B		IC514	8-759-998-98	IC LM358DR	
D546	8-719-977-28	DIODE UDZS-TE17-10B		IC515	8-752-082-87	IC CXA1845Q-TL	
D547	8-719-977-28	DIODE UDZS-TE17-10B		IC516	8-759-082-58	IC TC7W08FU(TE12R)	
D548	8-719-073-01	DIODE MA111-TX		IC517	8-759-239-34	IC TC74HC4538AF(EL)	
D549	8-719-158-15	DIODE UDZ-TE-17-5.6B		IC518	8-759-510-72	IC LM393D	
D550	8-719-977-28	DIODE UDZS-TE17-10B		IC519	8-759-239-34	IC TC74HC4538AF(EL)	
D551	8-719-977-28	DIODE UDZS-TE17-10B		IC520	8-759-098-24	IC PQ30RV11	
D552	8-719-977-28	DIODE UDZS-TE17-10B		IC521	8-759-239-34	IC TC74HC4538AF(EL)	
D553	8-719-158-15	DIODE UDZ-TE-17-5.6B		IC1001	8-759-575-89	IC LH5317VP	
D554	8-719-158-15	DIODE UDZ-TE-17-5.6B		IC1002	8-759-927-46	IC SN74HC00ANSR	
D555	8-719-977-28	DIODE UDZS-TE17-10B		IC1003	8-759-925-75	IC SN74HC05ANSR	
D556	8-719-977-28	DIODE UDZS-TE17-10B		IC1004	8-759-575-90	IC MB90091A-150	
D557	8-719-977-28	DIODE UDZS-TE17-10B		IC1005	8-759-352-91	IC PST9143NL	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC1007	8-759-575-72	IC M24C08-WMN6T(A)		L1006	1-469-555-21	INDUCTOR 10μH	
IC1008	8-752-919-29	IC CXP85856A-044Q		L1008	1-469-555-21	INDUCTOR 10μH	
IC1009	8-752-919-27	IC CXP85460-234Q		L1009	1-414-234-22	INDUCTOR 0μH	
IC1010	8-759-352-91	IC PST9143NL		L1301	1-414-234-22	INDUCTOR 0μH	
IC1301	8-752-086-80	IC CXA2019AQ-T4		L1302	1-414-234-22	INDUCTOR 0μH	
IC1302	8-752-082-49	IC CXA2119M-T6		L1304	1-414-234-22	INDUCTOR 0μH	
IC1303	8-759-353-02	IC NJM2533M(TE2)		L1306	1-469-555-21	INDUCTOR 10μH	
IC1305	8-752-086-80	IC CXA2019AQ-T4		L1307	1-469-555-21	INDUCTOR 10μH	
IC1307	8-752-082-49	IC CXA2119M-T6		L1308	1-469-555-21	INDUCTOR 10μH	
IC1401	8-759-638-05	IC Z8613012SSC-00TR		L1314	1-414-234-22	INDUCTOR 0μH	
IC1402	8-759-485-79	IC TC7SET08FU(TE85L)		L1319	1-469-555-21	INDUCTOR 10μH	
IC1403	8-759-009-07	IC MC14053BFEL		L1320	1-469-555-21	INDUCTOR 10μH	
IC1404	8-759-570-08	IC TC7SET32FU(TE85R)		L1329	1-469-555-21	INDUCTOR 10μH	
IC1405	8-752-395-13	IC CXD2085M-T4		L1401	1-414-234-22	INDUCTOR 0μH	
IC1408	8-759-239-34	IC TC74HC4538AF(EL)		L1402	1-414-234-22	INDUCTOR 0μH	
IC1409	8-759-564-49	IC TC7W53FU(TE12R)		L1403	1-414-234-22	INDUCTOR 0μH	
IC1601	8-759-394-80	IC NJM2058M-TE2		L1404	1-469-555-21	INDUCTOR 10μH	
IC1602	8-759-485-79	IC TC7SET08FU(TE85L)		L1405	1-414-234-22	INDUCTOR 0μH	
IC1603	8-759-009-07	IC MC14053BFEL		L1406	1-414-234-22	INDUCTOR 0μH	
IC1604	8-759-394-80	IC NJM2058M-TE2		L1407	1-414-234-22	INDUCTOR 0μH	
IC1605	8-759-394-80	IC NJM2058M-TE2		L1408	1-469-555-21	INDUCTOR 10μH	
IC1606	8-759-394-80	IC NJM2058M-TE2		<TRANSISTOR>			
IC1607	8-759-239-34	IC TC74HC4538AF(EL)		Q501	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
<JACK>				Q502	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
J502	1-774-749-11	JACK BLOCK, PIN (SELECT OUT)		Q503	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
J505	1-774-751-11	TERMINAL BLOCK, S (VIDEO 1 IN)		Q504	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
J506	1-774-751-11	TERMINAL BLOCK, S (VIDEO 3 IN)		Q505	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
J507	1-774-751-11	TERMINAL BLOCK, S (VIDEO 4 IN)		Q506	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
J508	1-774-750-11	JACK BLOCK, PIN (VIDEO 5 (DTV) IN L/R)		Q507	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
<COIL>				Q508	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L501	1-414-856-11	INDUCTOR 10μH		Q509	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L502	1-414-856-11	INDUCTOR 10μH		Q510	8-729-122-63	TRANSISTOR 2SA1226-T1E3E4	
L503	1-414-856-11	INDUCTOR 10μH		Q511	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L504	1-414-856-11	INDUCTOR 10μH		Q512	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L505	1-414-856-11	INDUCTOR 10μH		Q513	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L506	1-414-856-11	INDUCTOR 10μH		Q514	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L507	1-414-856-11	INDUCTOR 10μH		Q515	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L508	1-414-856-11	INDUCTOR 10μH		Q516	8-729-122-63	TRANSISTOR 2SA1226-T1E3E4	
L509	1-414-856-11	INDUCTOR 10μH		Q517	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L510	1-414-856-11	INDUCTOR 10μH		Q518	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L511	1-414-856-11	INDUCTOR 10μH		Q519	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L512	1-414-856-11	INDUCTOR 10μH		Q520	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L513	1-414-234-22	INDUCTOR 0μH		Q521	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L514	1-414-856-11	INDUCTOR 10μH		Q522	8-729-027-38	TRANSISTOR DTA144EKA-T146	
L515	1-414-856-11	INDUCTOR 10μH		Q523	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L517	1-414-234-22	INDUCTOR 0μH		Q524	8-729-122-63	TRANSISTOR 2SA1226-T1E3E4	
L518	1-414-234-22	INDUCTOR 0μH		Q525	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L519	1-414-234-22	INDUCTOR 0μH		Q526	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L520	1-414-234-22	INDUCTOR 0μH		Q527	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L523	1-414-856-11	INDUCTOR 10μH		Q528	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L1001	1-414-234-22	INDUCTOR 0μH		Q530	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L1002	1-414-234-22	INDUCTOR 0μH		Q531	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L1004	1-469-555-21	INDUCTOR 10μH		Q532	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L1005	1-469-555-21	INDUCTOR 10μH		Q533	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
				Q535	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q536	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1318	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q537	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1319	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q538	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX	Q1320	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q539	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX	Q1321	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q540	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX	Q1322	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q541	8-729-027-38	TRANSISTOR	DTA144EKA-T146	Q1323	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q542	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX	Q1324	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q543	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1325	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q544	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1326	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q545	1-801-806-11	TRANSISTOR	DTC144EKA-T146	Q1327	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q546	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1328	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q547	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX	Q1329	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q548	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1330	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q549	8-729-027-38	TRANSISTOR	DTA144EKA-T146	Q1331	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q550	1-801-806-11	TRANSISTOR	DTC144EKA-T146	Q1332	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q551	1-801-806-11	TRANSISTOR	DTC144EKA-T146	Q1333	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q552	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1335	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q554	8-729-027-38	TRANSISTOR	DTA144EKA-T146	Q1336	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q555	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1338	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q556	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1343	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q557	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1366	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q558	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1367	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q560	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1401	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q561	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1402	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q562	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1403	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q563	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX	Q1404	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q564	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX	Q1405	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q567	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1406	1-801-806-11	TRANSISTOR	DTC144EKA-T146
Q801	8-729-027-38	TRANSISTOR	DTA144EKA-T146	Q1407	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q802	1-801-806-11	TRANSISTOR	DTC144EKA-T146	Q1408	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q1001	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1413	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q1002	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1414	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q1003	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1415	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q1004	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1416	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q1005	1-801-806-11	TRANSISTOR	DTC144EKA-T146	Q1417	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q1006	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1418	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
Q1008	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1419	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q1010	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1420	1-801-806-11	TRANSISTOR	DTC144EKA-T146
Q1011	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1421	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q1012	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1422	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
Q1015	1-801-806-11	TRANSISTOR	DTC144EKA-T146	Q1601	1-801-806-11	TRANSISTOR	DTC144EKA-T146
Q1018	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1602	1-801-806-11	TRANSISTOR	DTC144EKA-T146
Q1020	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1603	1-801-806-11	TRANSISTOR	DTC144EKA-T146
Q1022	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1604	1-801-806-11	TRANSISTOR	DTC144EKA-T146
Q1301	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1605	1-801-806-11	TRANSISTOR	DTC144EKA-T146
Q1302	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1606	1-801-806-11	TRANSISTOR	DTC144EKA-T146
Q1303	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1607	1-801-806-11	TRANSISTOR	DTC144EKA-T146
Q1304	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1608	1-801-806-11	TRANSISTOR	DTC144EKA-T146
Q1306	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1609	8-729-048-50	TRANSISTOR	2SK3018-T106
Q1307	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX	Q1610	8-729-048-50	TRANSISTOR	2SK3018-T106
Q1308	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1611	8-729-048-50	TRANSISTOR	2SK3018-T106
Q1309	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX	Q1612	8-729-048-50	TRANSISTOR	2SK3018-T106
Q1311	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX	Q1613	8-729-048-50	TRANSISTOR	2SK3018-T106
Q1312	1-801-806-11	TRANSISTOR	DTC144EKA-T146	Q1614	8-729-048-50	TRANSISTOR	2SK3018-T106
Q1313	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX	Q1615	8-729-048-50	TRANSISTOR	2SK3018-T106
Q1315	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX	Q1616	8-729-048-50	TRANSISTOR	2SK3018-T106
Q1317	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	Q1617	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX



REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
Q1618	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX			R552	1-216-081-00	RES-CHIP	22K	5%	1/10W
Q1619	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX			R553	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q1620	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX			R554	1-208-776-11	METAL CHIP	560	0.5%	1/10W
						R555	1-216-043-91	RES-CHIP	560	5%	1/10W
Q1621	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX			R556	1-216-121-11	RES-CHIP	1M	5%	1/10W
		<RESISTOR>									
R501	1-216-073-00	RES-CHIP	10K	5%	1/10W	R557	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R502	1-216-073-00	RES-CHIP	10K	5%	1/10W	R558	1-216-073-00	RES-CHIP	10K	5%	1/10W
R503	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R559	1-216-073-00	RES-CHIP	10K	5%	1/10W
R504	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R560	1-208-778-11	METAL CHIP	680	0.5%	1/10W
R505	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R561	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R506	1-216-025-11	RES-CHIP	100	5%	1/10W	R562	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R507	1-216-295-11	SHORT	0			R563	1-216-097-11	RES-CHIP	100K	5%	1/10W
R508	1-249-393-11	CARBON	10	5%	1/4W	R564	1-216-097-11	RES-CHIP	100K	5%	1/10W
R509	1-249-381-11	CARBON	1	5%	1/4W	R565	1-216-097-11	RES-CHIP	100K	5%	1/10W
R510	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R566	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R511	1-216-295-11	SHORT	0			R567	1-216-049-11	RES-CHIP	1K	5%	1/10W
R512	1-216-295-11	SHORT	0			R569	1-216-073-00	RES-CHIP	10K	5%	1/10W
R513	1-216-295-11	SHORT	0			R570	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R514	1-216-031-00	RES-CHIP	180	5%	1/10W	R571	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R515	1-249-381-11	CARBON	1	5%	1/4W	R572	1-216-097-11	RES-CHIP	100K	5%	1/10W
R516	1-216-025-11	RES-CHIP	100	5%	1/10W	R573	1-216-049-11	RES-CHIP	1K	5%	1/10W
R517	1-216-101-00	RES-CHIP	150K	5%	1/10W	R574	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R518	1-216-017-91	RES-CHIP	47	5%	1/10W	R575	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R519	1-216-025-11	RES-CHIP	100	5%	1/10W	R576	1-216-097-11	RES-CHIP	100K	5%	1/10W
R520	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R577	1-216-075-00	RES-CHIP	12K	5%	1/10W
R521	1-216-049-11	RES-CHIP	1K	5%	1/10W	R578	1-216-073-00	RES-CHIP	10K	5%	1/10W
R522	1-216-295-11	SHORT	0			R580	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R523	1-216-031-00	RES-CHIP	180	5%	1/10W	R581	1-216-073-00	RES-CHIP	10K	5%	1/10W
R524	1-216-081-00	RES-CHIP	22K	5%	1/10W	R582	1-216-049-11	RES-CHIP	1K	5%	1/10W
R525	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	R583	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R526	1-216-031-00	RES-CHIP	180	5%	1/10W	R584	1-216-097-11	RES-CHIP	100K	5%	1/10W
R527	1-216-085-00	RES-CHIP	33K	5%	1/10W	R585	1-216-097-11	RES-CHIP	100K	5%	1/10W
R528	1-216-055-00	RES-CHIP	1.8K	5%	1/10W	R586	1-216-049-11	RES-CHIP	1K	5%	1/10W
R529	1-216-105-91	RES-CHIP	220K	5%	1/10W	R587	1-216-295-11	SHORT	0		
R530	1-208-780-11	METAL CHIP	820	0.5%	1/10W	R588	1-216-017-91	RES-CHIP	47	5%	1/10W
R531	1-208-774-11	METAL CHIP	470	0.5%	1/10W	R589	1-216-049-11	RES-CHIP	1K	5%	1/10W
R532	1-216-049-11	RES-CHIP	1K	5%	1/10W	R590	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R534	1-208-810-11	METAL CHIP	15K	0.5%	1/10W	R591	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R535	1-216-373-11	METAL OXIDE	2.2	5%	2W	R592	1-216-025-11	RES-CHIP	100	5%	1/10W
R536	1-208-782-11	METAL CHIP	1K	0.5%	1/10W	R593	1-216-049-11	RES-CHIP	1K	5%	1/10W
R537	1-208-818-11	METAL CHIP	33K	0.5%	1/10W	R594	1-216-121-11	RES-CHIP	1M	5%	1/10W
R538	1-216-083-00	RES-CHIP	27K	5%	1/10W	R595	1-216-033-00	RES-CHIP	220	5%	1/10W
R539	1-216-689-11	RES-CHIP	39K	5%	1/10W	R596	1-216-049-11	RES-CHIP	1K	5%	1/10W
R540	1-208-808-11	METAL CHIP	12K	0.5%	1/10W	R597	1-216-025-11	RES-CHIP	100	5%	1/10W
R541	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	R598	1-216-033-00	RES-CHIP	220	5%	1/10W
R542	1-216-043-91	RES-CHIP	560	5%	1/10W	R599	1-216-105-91	RES-CHIP	220K	5%	1/10W
R543	1-208-776-11	METAL CHIP	560	0.5%	1/10W	R600	1-216-295-11	SHORT	0		
R544	1-216-045-00	RES-CHIP	680	5%	1/10W	R601	1-216-081-00	RES-CHIP	22K	5%	1/10W
R545	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	R602	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R546	1-208-826-11	METAL CHIP	68K	0.5%	1/10W	R603	1-216-073-00	RES-CHIP	10K	5%	1/10W
R547	1-216-073-00	RES-CHIP	10K	5%	1/10W	R604	1-216-073-00	RES-CHIP	10K	5%	1/10W
R548	1-208-788-11	METAL CHIP	1.8K	0.5%	1/10W	R605	1-216-049-11	RES-CHIP	1K	5%	1/10W
R549	1-208-782-11	METAL CHIP	1K	0.5%	1/10W	R606	1-216-373-11	METAL OXIDE	2.2	5%	2W
R550	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	R607	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R551	1-216-097-11	RES-CHIP	100K	5%	1/10W	R608	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
						R609	1-216-033-00	RES-CHIP	220	5%	1/10W
						R610	1-216-025-11	RES-CHIP	100	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R611	1-216-107-00	RES-CHIP	270K 5% 1/10W	R670	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R612	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R671	1-216-025-11	RES-CHIP	100 5% 1/10W
R613	1-216-073-00	RES-CHIP	10K 5% 1/10W	R672	1-216-049-11	RES-CHIP	1K 5% 1/10W
R614	1-216-073-00	RES-CHIP	10K 5% 1/10W	R673	1-216-025-11	RES-CHIP	100 5% 1/10W
R615	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	R674	1-216-025-11	RES-CHIP	100 5% 1/10W
R616	1-216-295-11	SHORT	0	R675	1-216-083-00	RES-CHIP	27K 5% 1/10W
R617	1-216-017-91	RES-CHIP	47 5% 1/10W	R676	1-216-025-11	RES-CHIP	100 5% 1/10W
R618	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R677	1-216-025-11	RES-CHIP	100 5% 1/10W
R619	1-216-033-00	RES-CHIP	220 5% 1/10W	R678	1-216-025-11	RES-CHIP	100 5% 1/10W
R620	1-216-049-11	RES-CHIP	1K 5% 1/10W	R679	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R621	1-216-025-11	RES-CHIP	100 5% 1/10W	R680	1-216-025-11	RES-CHIP	100 5% 1/10W
R622	1-216-049-11	RES-CHIP	1K 5% 1/10W	R681	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R623	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R682	1-208-778-11	METAL CHIP	680 0.5% 1/10W
R624	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R683	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R625	1-216-025-11	RES-CHIP	100 5% 1/10W	R685	1-216-025-11	RES-CHIP	100 5% 1/10W
R626	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R686	1-216-077-91	RES-CHIP	15K 5% 1/10W
R628	1-208-788-11	METAL CHIP	1.8K 0.5% 1/10W	R687	1-216-295-11	SHORT	0
R629	1-208-814-91	METAL CHIP	22K 0.5% 1/10W	R688	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R630	1-216-025-11	RES-CHIP	100 5% 1/10W	R689	1-216-025-11	RES-CHIP	100 5% 1/10W
R631	1-216-025-11	RES-CHIP	100 5% 1/10W	R690	1-216-025-11	RES-CHIP	100 5% 1/10W
R632	1-216-025-11	RES-CHIP	100 5% 1/10W	R691	1-208-772-11	METAL CHIP	390 0.5% 1/10W
R633	1-216-025-11	RES-CHIP	100 5% 1/10W	R692	1-208-808-11	METAL CHIP	12K 0.5% 1/10W
R634	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R693	1-216-025-11	RES-CHIP	100 5% 1/10W
R635	1-216-295-11	SHORT	0	R694	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R636	1-216-133-00	RES-CHIP	3.3M 5% 1/10W	R695	1-216-025-11	RES-CHIP	100 5% 1/10W
R637	1-216-025-11	RES-CHIP	100 5% 1/10W	R696	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R638	1-216-025-11	RES-CHIP	100 5% 1/10W	R697	1-216-025-11	RES-CHIP	100 5% 1/10W
R639	1-216-025-11	RES-CHIP	100 5% 1/10W	R698	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R640	1-216-025-11	RES-CHIP	100 5% 1/10W	R699	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R642	1-216-025-11	RES-CHIP	100 5% 1/10W	R700	1-216-043-91	RES-CHIP	560 5% 1/10W
R643	1-216-025-11	RES-CHIP	100 5% 1/10W	R701	1-208-755-11	METAL CHIP	75 0.5% 1/10W
R644	1-216-025-11	RES-CHIP	100 5% 1/10W	R702	1-216-025-11	RES-CHIP	100 5% 1/10W
R645	1-216-025-11	RES-CHIP	100 5% 1/10W	R703	1-216-295-11	SHORT	0
R646	1-216-025-11	RES-CHIP	100 5% 1/10W	R704	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R647	1-216-025-11	RES-CHIP	100 5% 1/10W	R705	1-216-025-11	RES-CHIP	100 5% 1/10W
R648	1-216-017-91	RES-CHIP	47 5% 1/10W	R706	1-216-025-11	RES-CHIP	100 5% 1/10W
R649	1-216-025-11	RES-CHIP	100 5% 1/10W	R707	1-208-814-91	METAL CHIP	22K 0.5% 1/10W
R650	1-216-025-11	RES-CHIP	100 5% 1/10W	R708	1-216-025-11	RES-CHIP	100 5% 1/10W
R651	1-216-073-00	RES-CHIP	10K 5% 1/10W	R709	1-216-091-00	RES-CHIP	56K 5% 1/10W
R652	1-216-025-11	RES-CHIP	100 5% 1/10W	R710	1-216-025-11	RES-CHIP	100 5% 1/10W
R653	1-216-025-11	RES-CHIP	100 5% 1/10W	R712	1-216-025-11	RES-CHIP	100 5% 1/10W
R654	1-216-025-11	RES-CHIP	100 5% 1/10W	R713	1-216-025-11	RES-CHIP	100 5% 1/10W
R655	1-216-025-11	RES-CHIP	100 5% 1/10W	R714	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R656	1-216-025-11	RES-CHIP	100 5% 1/10W	R716	1-216-025-11	RES-CHIP	100 5% 1/10W
R657	1-216-083-00	RES-CHIP	27K 5% 1/10W	R717	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
R658	1-216-689-11	RES-CHIP	39K 5% 1/10W	R718	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R659	1-216-025-11	RES-CHIP	100 5% 1/10W	R719	1-216-025-11	RES-CHIP	100 5% 1/10W
R660	1-216-025-11	RES-CHIP	100 5% 1/10W	R720	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R661	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R721	1-216-025-11	RES-CHIP	100 5% 1/10W
R662	1-216-025-11	RES-CHIP	100 5% 1/10W	R722	1-216-025-11	RES-CHIP	100 5% 1/10W
R663	1-216-025-11	RES-CHIP	100 5% 1/10W	R723	1-216-049-11	RES-CHIP	1K 5% 1/10W
R664	1-208-776-11	METAL CHIP	560 0.5% 1/10W	R725	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
R665	1-216-025-11	RES-CHIP	100 5% 1/10W	R726	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R666	1-216-049-11	RES-CHIP	1K 5% 1/10W	R727	1-216-051-00	RES-CHIP	1.2K 5.0% 1/10W
R667	1-216-109-00	RES-CHIP	330K 5% 1/10W	R728	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R668	1-216-025-11	RES-CHIP	100 5% 1/10W	R729	1-216-295-11	SHORT	0
R669	1-208-814-91	METAL CHIP	22K 0.5% 1/10W				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R730	1-216-049-11	RES-CHIP	1K 5% 1/10W	R799	1-216-025-11	RES-CHIP	100 5% 1/10W
R732	1-216-073-00	RES-CHIP	10K 5% 1/10W	R800	1-216-025-11	RES-CHIP	100 5% 1/10W
R733	1-216-073-00	RES-CHIP	10K 5% 1/10W	R801	1-216-081-00	RES-CHIP	22K 5% 1/10W
R734	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R802	1-216-041-00	RES-CHIP	470 5% 1/10W
R735	1-216-025-11	RES-CHIP	100 5% 1/10W	R803	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R736	1-216-025-11	RES-CHIP	100 5% 1/10W	R804	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R739	1-216-073-00	RES-CHIP	10K 5% 1/10W	R806	1-208-755-11	METAL CHIP	75 0.5% 1/10W
R740	1-216-017-91	RES-CHIP	47 5% 1/10W	R807	1-208-755-11	METAL CHIP	75 0.5% 1/10W
R741	1-216-093-91	RES-CHIP	68K 5% 1/10W	R808	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R742	1-208-818-11	METAL CHIP	33K 0.5% 1/10W	R809	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R743	1-216-025-11	RES-CHIP	100 5% 1/10W	R810	1-208-755-11	METAL CHIP	75 0.5% 1/10W
R744	1-216-025-11	RES-CHIP	100 5% 1/10W	R812	1-216-025-11	RES-CHIP	100 5% 1/10W
R745	1-216-025-11	RES-CHIP	100 5% 1/10W	R814	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R746	1-216-025-11	RES-CHIP	100 5% 1/10W	R815	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R747	1-216-085-00	RES-CHIP	33K 5% 1/10W	R816	1-216-295-11	SHORT	0
R748	1-216-025-11	RES-CHIP	100 5% 1/10W	R817	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R749	1-216-025-11	RES-CHIP	100 5% 1/10W	R818	1-216-049-11	RES-CHIP	1K 5% 1/10W
R751	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R819	1-216-025-11	RES-CHIP	100 5% 1/10W
R752	1-208-819-11	METAL CHIP	36K 0.5% 1/10W	R820	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R753	1-216-025-11	RES-CHIP	100 5% 1/10W	R821	1-216-025-11	RES-CHIP	100 5% 1/10W
R754	1-216-025-11	RES-CHIP	100 5% 1/10W	R822	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R755	1-216-295-11	SHORT	0	R823	1-216-025-11	RES-CHIP	100 5% 1/10W
R756	1-216-045-00	RES-CHIP	680 5% 1/10W	R824	1-216-025-11	RES-CHIP	100 5% 1/10W
R757	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R825	1-216-025-11	RES-CHIP	100 5% 1/10W
R758	1-208-819-11	METAL CHIP	36K 0.5% 1/10W	R826	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R759	1-216-295-11	SHORT	0	R827	1-216-025-11	RES-CHIP	100 5% 1/10W
R760	1-216-295-11	SHORT	0	R828	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R762	1-208-810-11	METAL CHIP	15K 0.5% 1/10W	R829	1-216-025-11	RES-CHIP	100 5% 1/10W
R763	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R830	1-216-025-11	RES-CHIP	100 5% 1/10W
R764	1-208-772-11	METAL CHIP	390 0.5% 1/10W	R831	1-216-025-11	RES-CHIP	100 5% 1/10W
R765	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R832	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R766	1-216-019-00	RES-CHIP	56 5% 1/10W	R833	1-216-025-11	RES-CHIP	100 5% 1/10W
R767	1-216-025-11	RES-CHIP	100 5% 1/10W	R834	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R768	1-216-081-00	RES-CHIP	22K 5% 1/10W	R835	1-216-025-11	RES-CHIP	100 5% 1/10W
R769	1-216-025-11	RES-CHIP	100 5% 1/10W	R836	1-216-025-11	RES-CHIP	100 5% 1/10W
R770	1-216-025-11	RES-CHIP	100 5% 1/10W	R840	1-216-081-00	RES-CHIP	22K 5% 1/10W
R771	1-216-025-11	RES-CHIP	100 5% 1/10W	R841	1-216-081-00	RES-CHIP	22K 5% 1/10W
R772	1-216-025-11	RES-CHIP	100 5% 1/10W	R843	1-216-081-00	RES-CHIP	22K 5% 1/10W
R773	1-216-025-11	RES-CHIP	100 5% 1/10W	R852	1-216-113-00	RES-CHIP	470K 5% 1/10W
R774	1-216-025-11	RES-CHIP	100 5% 1/10W	R853	1-216-041-00	RES-CHIP	470 5% 1/10W
R775	1-216-025-11	RES-CHIP	100 5% 1/10W	R854	1-216-041-00	RES-CHIP	470 5% 1/10W
R776	1-216-295-11	SHORT	0	R855	1-216-113-00	RES-CHIP	470K 5% 1/10W
R777	1-216-025-11	RES-CHIP	100 5% 1/10W	R856	1-216-049-11	RES-CHIP	1K 5% 1/10W
R778	1-208-794-11	METAL CHIP	3.3K 0.5% 1/10W	R857	1-216-089-11	RES-CHIP	47K 5% 1/10W
R779	1-208-818-11	METAL CHIP	33K 0.5% 1/10W	R858	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R780	1-216-025-11	RES-CHIP	100 5% 1/10W	R859	1-216-033-00	RES-CHIP	220 5% 1/10W
R781	1-208-806-11	METAL CHIP	10K 0.5% 1/10W	R860	1-216-033-00	RES-CHIP	220 5% 1/10W
R782	1-216-025-11	RES-CHIP	100 5% 1/10W	R861	1-216-033-00	RES-CHIP	220 5% 1/10W
R783	1-216-025-11	RES-CHIP	100 5% 1/10W	R862	1-216-049-11	RES-CHIP	1K 5% 1/10W
R784	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	R864	1-216-049-11	RES-CHIP	1K 5% 1/10W
R787	1-216-025-11	RES-CHIP	100 5% 1/10W	R865	1-216-049-11	RES-CHIP	1K 5% 1/10W
R788	1-216-073-00	RES-CHIP	10K 5% 1/10W	R867	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R789	1-216-073-00	RES-CHIP	10K 5% 1/10W	R868	1-216-033-00	RES-CHIP	220 5% 1/10W
R790	1-216-025-11	RES-CHIP	100 5% 1/10W	R869	1-216-033-00	RES-CHIP	220 5% 1/10W
R791	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	R870	1-216-113-00	RES-CHIP	470K 5% 1/10W
R794	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	R871	1-216-113-00	RES-CHIP	470K 5% 1/10W
R795	1-216-025-11	RES-CHIP	100 5% 1/10W	R872	1-216-113-00	RES-CHIP	470K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
R873	1-216-113-00	RES-CHIP	470K	5% 1/10W	R1024	1-216-081-00	RES-CHIP	22K	5% 1/10W
R875	1-208-755-11	METAL CHIP	75	0.5% 1/10W	R1025	1-216-025-11	RES-CHIP	100	5% 1/10W
R876	1-208-755-11	METAL CHIP	75	0.5% 1/10W	R1026	1-208-814-91	METAL CHIP	22K	0.5% 1/10W
R877	1-208-755-11	METAL CHIP	75	0.5% 1/10W	R1027	1-216-025-11	RES-CHIP	100	5% 1/10W
R878	1-208-755-11	METAL CHIP	75	0.5% 1/10W	R1028	1-208-814-91	METAL CHIP	22K	0.5% 1/10W
R879	1-208-755-11	METAL CHIP	75	0.5% 1/10W	R1029	1-216-025-11	RES-CHIP	100	5% 1/10W
R880	1-208-755-11	METAL CHIP	75	0.5% 1/10W	R1030	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W
R883	1-208-755-11	METAL CHIP	75	0.5% 1/10W	R1031	1-216-025-11	RES-CHIP	100	5% 1/10W
R884	1-208-755-11	METAL CHIP	75	0.5% 1/10W	R1032	1-216-097-11	RES-CHIP	100K	5% 1/10W
R885	1-208-755-11	METAL CHIP	75	0.5% 1/10W	R1033	1-216-025-11	RES-CHIP	100	5% 1/10W
R886	1-216-113-00	RES-CHIP	470K	5% 1/10W	R1034	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R887	1-216-033-00	RES-CHIP	220	5% 1/10W	R1035	1-216-025-11	RES-CHIP	100	5% 1/10W
R891	1-208-755-11	METAL CHIP	75	0.5% 1/10W	R1036	1-216-009-91	RES-CHIP	22	5% 1/10W
R892	1-216-113-00	RES-CHIP	470K	5% 1/10W	R1037	1-208-770-11	METAL CHIP	330	0.5% 1/10W
R893	1-208-755-11	METAL CHIP	75	0.5% 1/10W	R1038	1-216-025-11	RES-CHIP	100	5% 1/10W
R894	1-216-113-00	RES-CHIP	470K	5% 1/10W	R1039	1-216-025-11	RES-CHIP	100	5% 1/10W
R895	1-208-755-11	METAL CHIP	75	0.5% 1/10W	R1040	1-216-025-11	RES-CHIP	100	5% 1/10W
R896	1-216-113-00	RES-CHIP	470K	5% 1/10W	R1041	1-216-295-11	SHORT	0	
R898	1-216-113-00	RES-CHIP	470K	5% 1/10W	R1042	1-216-097-11	RES-CHIP	100K	5% 1/10W
R899	1-216-033-00	RES-CHIP	220	5% 1/10W	R1043	1-216-025-11	RES-CHIP	100	5% 1/10W
R901	1-216-033-00	RES-CHIP	220	5% 1/10W	R1044	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W
R903	1-216-009-91	RES-CHIP	22	5% 1/10W	R1045	1-216-033-00	RES-CHIP	220	5% 1/10W
R904	1-216-009-91	RES-CHIP	22	5% 1/10W	R1046	1-216-073-00	RES-CHIP	10K	5% 1/10W
R905	1-216-073-00	RES-CHIP	10K	5% 1/10W	R1047	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R906	1-216-073-00	RES-CHIP	10K	5% 1/10W	R1048	1-216-097-11	RES-CHIP	100K	5% 1/10W
R907	1-216-073-00	RES-CHIP	10K	5% 1/10W	R1049	1-216-089-11	RES-CHIP	47K	5% 1/10W
R908	1-216-073-00	RES-CHIP	10K	5% 1/10W	R1050	1-216-061-00	RES-CHIP	3.3K	5% 1/10W
R909	1-216-073-00	RES-CHIP	10K	5% 1/10W	R1051	1-216-049-11	RES-CHIP	1K	5% 1/10W
R910	1-216-041-00	RES-CHIP	470	5% 1/10W	R1052	1-216-049-11	RES-CHIP	1K	5% 1/10W
R911	1-216-025-11	RES-CHIP	100	5% 1/10W	R1053	1-216-083-00	RES-CHIP	27K	5% 1/10W
R912	1-216-025-11	RES-CHIP	100	5% 1/10W	R1062	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R913	1-216-025-11	RES-CHIP	100	5% 1/10W	R1063	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R914	1-216-025-11	RES-CHIP	100	5% 1/10W	R1064	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R1001	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W	R1071	1-216-073-00	RES-CHIP	10K	5% 1/10W
R1002	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W	R1073	1-216-049-11	RES-CHIP	1K	5% 1/10W
R1003	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W	R1074	1-216-049-11	RES-CHIP	1K	5% 1/10W
R1004	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W	R1075	1-216-033-00	RES-CHIP	220	5% 1/10W
R1005	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W	R1076	1-216-033-00	RES-CHIP	220	5% 1/10W
R1006	1-216-033-00	RES-CHIP	220	5% 1/10W	R1077	1-216-033-00	RES-CHIP	220	5% 1/10W
R1007	1-208-784-11	METAL CHIP	1.2K	0.5% 1/10W	R1078	1-216-049-11	RES-CHIP	1K	5% 1/10W
R1008	1-216-635-11	METAL CHIP	220	0.5% 1/10W	R1079	1-216-033-00	RES-CHIP	220	5% 1/10W
R1009	1-216-033-00	RES-CHIP	220	5% 1/10W	R1081	1-216-037-00	RES-CHIP	330	5% 1/10W
R1010	1-208-784-11	METAL CHIP	1.2K	0.5% 1/10W	R1082	1-216-037-00	RES-CHIP	330	5% 1/10W
R1011	1-216-635-11	METAL CHIP	220	0.5% 1/10W	R1083	1-216-089-11	RES-CHIP	47K	5% 1/10W
R1012	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W	R1084	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R1013	1-216-053-00	RES-CHIP	1.5K	5% 1/10W	R1086	1-216-073-00	RES-CHIP	10K	5% 1/10W
R1014	1-216-025-11	RES-CHIP	100	5% 1/10W	R1087	1-216-025-11	RES-CHIP	100	5% 1/10W
R1015	1-216-025-11	RES-CHIP	100	5% 1/10W	R1088	1-216-067-00	RES-CHIP	5.6K	5% 1/10W
R1016	1-216-025-11	RES-CHIP	100	5% 1/10W	R1089	1-216-025-11	RES-CHIP	100	5% 1/10W
R1017	1-216-025-11	RES-CHIP	100	5% 1/10W	R1090	1-208-798-11	METAL CHIP	4.7K	0.5% 1/10W
R1018	1-216-025-11	RES-CHIP	100	5% 1/10W	R1091	1-216-025-11	RES-CHIP	100	5% 1/10W
R1019	1-216-025-11	RES-CHIP	100	5% 1/10W	R1092	1-216-073-00	RES-CHIP	10K	5% 1/10W
R1020	1-216-025-11	RES-CHIP	100	5% 1/10W	R1094	1-216-033-00	RES-CHIP	220	5% 1/10W
R1021	1-216-033-00	RES-CHIP	220	5% 1/10W	R1095	1-216-033-00	RES-CHIP	220	5% 1/10W
R1022	1-208-784-11	METAL CHIP	1.2K	0.5% 1/10W	R1096	1-216-067-00	RES-CHIP	5.6K	5% 1/10W
R1023	1-216-635-11	METAL CHIP	220	0.5% 1/10W	R1097	1-216-033-00	RES-CHIP	220	5% 1/10W
					R1098	1-216-033-00	RES-CHIP	220	5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1099	1-216-033-00	RES-CHIP	220 5% 1/10W	R1157	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1100	1-216-033-00	RES-CHIP	220 5% 1/10W	R1158	1-216-033-00	RES-CHIP	220 5% 1/10W
R1101	1-216-025-11	RES-CHIP	100 5% 1/10W	R1159	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1102	1-216-033-00	RES-CHIP	220 5% 1/10W	R1160	1-216-033-00	RES-CHIP	220 5% 1/10W
R1103	1-216-033-00	RES-CHIP	220 5% 1/10W	R1161	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1104	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1162	1-216-025-11	RES-CHIP	100 5% 1/10W
R1105	1-216-033-00	RES-CHIP	220 5% 1/10W	R1163	1-216-025-11	RES-CHIP	100 5% 1/10W
R1106	1-216-033-00	RES-CHIP	220 5% 1/10W	R1164	1-216-033-00	RES-CHIP	220 5% 1/10W
R1107	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1165	1-216-033-00	RES-CHIP	220 5% 1/10W
R1108	1-216-025-11	RES-CHIP	100 5% 1/10W	R1166	1-216-033-00	RES-CHIP	220 5% 1/10W
R1109	1-216-295-11	SHORT	0	R1167	1-216-121-11	RES-CHIP	1M 5% 1/10W
R1110	1-216-033-00	RES-CHIP	220 5% 1/10W	R1168	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R1111	1-216-033-00	RES-CHIP	220 5% 1/10W	R1169	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R1112	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R1171	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1113	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1172	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1114	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1173	1-216-033-00	RES-CHIP	220 5% 1/10W
R1115	1-216-033-00	RES-CHIP	220 5% 1/10W	R1174	1-216-033-00	RES-CHIP	220 5% 1/10W
R1116	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1175	1-208-788-11	METAL CHIP	1.8K 0.5% 1/10W
R1117	1-216-041-00	RES-CHIP	470 5% 1/10W	R1178	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R1118	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1180	1-208-788-11	METAL CHIP	1.8K 0.5% 1/10W
R1119	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1183	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R1120	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1185	1-208-788-11	METAL CHIP	1.8K 0.5% 1/10W
R1121	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1188	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R1122	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R1301	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1123	1-216-033-00	RES-CHIP	220 5% 1/10W	R1302	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1124	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1303	1-208-788-11	METAL CHIP	1.8K 0.5% 1/10W
R1125	1-216-097-11	RES-CHIP	100K 5% 1/10W	R1305	1-208-788-11	METAL CHIP	1.8K 0.5% 1/10W
R1126	1-216-025-11	RES-CHIP	100 5% 1/10W	R1306	1-208-788-11	METAL CHIP	1.8K 0.5% 1/10W
R1127	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1307	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R1129	1-216-033-00	RES-CHIP	220 5% 1/10W	R1308	1-216-025-11	RES-CHIP	100 5% 1/10W
R1130	1-216-033-00	RES-CHIP	220 5% 1/10W	R1309	1-216-025-11	RES-CHIP	100 5% 1/10W
R1131	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1310	1-216-295-11	SHORT	0
R1132	1-216-033-00	RES-CHIP	220 5% 1/10W	R1311	1-216-041-00	RES-CHIP	470 5% 1/10W
R1133	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1312	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1134	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1313	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R1135	1-216-033-00	RES-CHIP	220 5% 1/10W	R1314	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R1136	1-216-033-00	RES-CHIP	220 5% 1/10W	R1315	1-216-025-11	RES-CHIP	100 5% 1/10W
R1137	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1316	1-216-025-11	RES-CHIP	100 5% 1/10W
R1138	1-216-033-00	RES-CHIP	220 5% 1/10W	R1317	1-216-025-11	RES-CHIP	100 5% 1/10W
R1139	1-216-033-00	RES-CHIP	220 5% 1/10W	R1318	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R1140	1-216-033-00	RES-CHIP	220 5% 1/10W	R1319	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1141	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1320	1-216-025-11	RES-CHIP	100 5% 1/10W
R1142	1-216-033-00	RES-CHIP	220 5% 1/10W	R1321	1-216-025-11	RES-CHIP	100 5% 1/10W
R1143	1-216-033-00	RES-CHIP	220 5% 1/10W	R1322	1-216-025-11	RES-CHIP	100 5% 1/10W
R1144	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R1323	1-216-037-00	RES-CHIP	330 5% 1/10W
R1145	1-216-033-00	RES-CHIP	220 5% 1/10W	R1324	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1146	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1325	1-216-111-00	RES-CHIP	390K 5% 1/10W
R1147	1-216-025-11	RES-CHIP	100 5% 1/10W	R1326	1-216-025-11	RES-CHIP	100 5% 1/10W
R1148	1-216-033-00	RES-CHIP	220 5% 1/10W	R1327	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R1149	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1328	1-216-025-11	RES-CHIP	100 5% 1/10W
R1150	1-216-025-11	RES-CHIP	100 5% 1/10W	R1329	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1151	1-216-033-00	RES-CHIP	220 5% 1/10W	R1330	1-216-025-11	RES-CHIP	100 5% 1/10W
R1152	1-216-025-11	RES-CHIP	100 5% 1/10W	R1331	1-216-025-11	RES-CHIP	100 5% 1/10W
R1153	1-216-097-11	RES-CHIP	100K 5% 1/10W	R1332	1-216-025-11	RES-CHIP	100 5% 1/10W
R1154	1-216-097-11	RES-CHIP	100K 5% 1/10W	R1333	1-216-043-91	RES-CHIP	560 5% 1/10W
R1155	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1334	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1156	1-216-033-00	RES-CHIP	220 5% 1/10W				



REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
R1335	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1414	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R1337	1-216-025-11	RES-CHIP	100	5%	1/10W	R1415	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1338	1-216-025-11	RES-CHIP	100	5%	1/10W	R1416	1-216-025-11	RES-CHIP	100	5%	1/10W
R1339	1-216-065-91	RES-CHIP	4.7K	5%	1/10W						
R1340	1-216-025-11	RES-CHIP	100	5%	1/10W	R1417	1-216-025-11	RES-CHIP	100	5%	1/10W
						R1418	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1341	1-216-025-11	RES-CHIP	100	5%	1/10W	R1419	1-216-041-00	RES-CHIP	470	5%	1/10W
R1342	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	R1420	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1345	1-216-077-91	RES-CHIP	15K	5%	1/10W	R1421	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1346	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1347	1-216-025-11	RES-CHIP	100	5%	1/10W	R1422	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
						R1423	1-208-770-11	METAL CHIP	330	0.5%	1/10W
R1348	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1424	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R1349	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R1425	1-216-025-11	RES-CHIP	100	5%	1/10W
R1350	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R1426	1-216-025-11	RES-CHIP	100	5%	1/10W
R1351	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1352	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R1427	1-216-295-11	SHORT	0		
						R1428	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R1353	1-216-025-11	RES-CHIP	100	5%	1/10W	R1429	1-216-025-11	RES-CHIP	100	5%	1/10W
R1354	1-216-025-11	RES-CHIP	100	5%	1/10W	R1430	1-216-025-11	RES-CHIP	100	5%	1/10W
R1355	1-216-025-11	RES-CHIP	100	5%	1/10W	R1431	1-216-025-11	RES-CHIP	100	5%	1/10W
R1356	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1357	1-216-025-11	RES-CHIP	100	5%	1/10W	R1432	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
						R1433	1-216-111-00	RES-CHIP	390K	5%	1/10W
R1358	1-208-822-11	METAL CHIP	47K	0.5%	1/10W	R1434	1-216-295-11	SHORT	0		
R1363	1-216-025-11	RES-CHIP	100	5%	1/10W	R1435	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1364	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R1436	1-216-295-11	SHORT	0		
R1365	1-216-057-00	RES-CHIP	2.2K	5%	1/10W						
R1366	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R1437	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
						R1438	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1368	1-208-788-11	METAL CHIP	1.8K	0.5%	1/10W	R1439	1-208-768-11	METAL CHIP	270	0.5%	1/10W
R1369	1-216-025-11	RES-CHIP	100	5%	1/10W	R1440	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R1371	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	R1441	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1372	1-216-065-91	RES-CHIP	4.7K	5%	1/10W						
R1374	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R1442	1-216-081-00	RES-CHIP	22K	5%	1/10W
						R1443	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1375	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R1444	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1377	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W	R1445	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1379	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	R1446	1-216-043-91	RES-CHIP	560	5%	1/10W
R1380	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W						
R1381	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W	R1447	1-216-081-00	RES-CHIP	22K	5%	1/10W
						R1448	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1383	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R1449	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R1389	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1450	1-216-077-91	RES-CHIP	15K	5%	1/10W
R1392	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1451	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1393	1-216-057-00	RES-CHIP	2.2K	5%	1/10W						
R1394	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1452	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
						R1453	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1395	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1454	1-216-025-11	RES-CHIP	100	5%	1/10W
R1396	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R1455	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1397	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1456	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1398	1-216-065-91	RES-CHIP	4.7K	5%	1/10W						
R1400	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R1457	1-216-089-11	RES-CHIP	47K	5%	1/10W
						R1458	1-216-025-11	RES-CHIP	100	5%	1/10W
R1401	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R1459	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1402	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R1460	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1404	1-208-822-11	METAL CHIP	47K	0.5%	1/10W	R1461	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1405	1-216-037-00	RES-CHIP	330	5%	1/10W						
R1406	1-216-025-11	RES-CHIP	100	5%	1/10W	R1462	1-216-295-11	SHORT	0		
						R1463	1-216-025-11	RES-CHIP	100	5%	1/10W
R1407	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R1464	1-216-025-11	RES-CHIP	100	5%	1/10W
R1408	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R1465	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1409	1-216-041-00	RES-CHIP	470	5%	1/10W	R1466	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1410	1-216-041-00	RES-CHIP	470	5%	1/10W						
R1411	1-216-041-00	RES-CHIP	470	5%	1/10W	R1467	1-216-295-11	SHORT	0		
						R1468	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1412	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1469	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1413	1-216-025-11	RES-CHIP	100	5%	1/10W	R1470	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
R1471	1-216-295-11	SHORT	0			R1619	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1472	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W	R1620	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1473	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	R1621	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1474	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W	R1622	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1475	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1623	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1476	1-216-097-11	RES-CHIP	100K	5%	1/10W	R1624	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1477	1-216-097-11	RES-CHIP	100K	5%	1/10W	R1625	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1478	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	R1626	1-216-025-11	RES-CHIP	100	5%	1/10W
R1479	1-216-097-11	RES-CHIP	100K	5%	1/10W	R1627	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R1480	1-216-097-11	RES-CHIP	100K	5%	1/10W	R1628	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R1482	1-216-097-11	RES-CHIP	100K	5%	1/10W	R1629	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R1483	1-216-097-11	RES-CHIP	100K	5%	1/10W	R1630	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R1484	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1631	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R1485	1-216-025-11	RES-CHIP	100	5%	1/10W	R1632	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R1486	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1633	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R1488	1-208-782-11	METAL CHIP	1K	0.5%	1/10W	R1634	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R1490	1-216-025-11	RES-CHIP	100	5%	1/10W	R1635	1-216-045-00	RES-CHIP	680	5%	1/10W
R1492	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	R1636	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R1493	1-216-025-11	RES-CHIP	100	5%	1/10W	R1637	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1494	1-216-025-11	RES-CHIP	100	5%	1/10W	R1638	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1495	1-216-085-00	RES-CHIP	33K	5%	1/10W	R1639	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1496	1-216-025-11	RES-CHIP	100	5%	1/10W	R1640	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1497	1-216-025-11	RES-CHIP	100	5%	1/10W	R1641	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1498	1-216-025-11	RES-CHIP	100	5%	1/10W	R1642	1-216-041-00	RES-CHIP	470	5%	1/10W
R1499	1-216-041-00	RES-CHIP	470	5%	1/10W	R1643	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1501	1-216-025-11	RES-CHIP	100	5%	1/10W	R1644	1-216-085-00	RES-CHIP	33K	5%	1/10W
R1503	1-216-025-11	RES-CHIP	100	5%	1/10W	R1647	1-216-041-00	RES-CHIP	470	5%	1/10W
R1511	1-216-295-11	SHORT	0			R1650	1-216-041-00	RES-CHIP	470	5%	1/10W
R1517	1-216-295-11	SHORT	0			R1653	1-216-041-00	RES-CHIP	470	5%	1/10W
R1518	1-216-295-11	SHORT	0			R1654	1-216-041-00	RES-CHIP	470	5%	1/10W
R1521	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1658	1-216-041-00	RES-CHIP	470	5%	1/10W
R1527	1-216-025-11	RES-CHIP	100	5%	1/10W	R1663	1-216-041-00	RES-CHIP	470	5%	1/10W
R1528	1-216-025-11	RES-CHIP	100	5%	1/10W	R1666	1-216-041-00	RES-CHIP	470	5%	1/10W
R1529	1-216-025-11	RES-CHIP	100	5%	1/10W	R1668	1-216-025-11	RES-CHIP	100	5%	1/10W
R1530	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1669	1-216-025-11	RES-CHIP	100	5%	1/10W
R1536	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1670	1-216-025-11	RES-CHIP	100	5%	1/10W
R1537	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1671	1-216-025-11	RES-CHIP	100	5%	1/10W
R1538	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1672	1-216-025-11	RES-CHIP	100	5%	1/10W
R1540	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	R1673	1-216-025-11	RES-CHIP	100	5%	1/10W
R1543	1-216-295-11	SHORT	0			R1674	1-216-025-11	RES-CHIP	100	5%	1/10W
R1546	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R1675	1-216-025-11	RES-CHIP	100	5%	1/10W
R1601	1-216-117-00	RES-CHIP	680K	5%	1/10W	<TUNER>					
R1602	1-216-113-00	RES-CHIP	470K	5%	1/10W	TU501	8-598-542-00	TUNER, FSS BTF-WA412			
R1603	1-216-295-11	SHORT	0			TU502	8-598-542-00	TUNER, FSS BTF-WA412			
R1605	1-216-117-00	RES-CHIP	680K	5%	1/10W	<CRYSTAL>					
R1607	1-216-117-00	RES-CHIP	680K	5%	1/10W	X1001	1-767-925-21	VIBRATOR, CRYSTAL			
R1609	1-216-097-11	RES-CHIP	100K	5%	1/10W	X1002	1-579-125-11	VIBRATOR, CERAMIC			
R1610	1-216-025-11	RES-CHIP	100	5%	1/10W	X1301	1-577-611-11	OSCILATOR, CERAMIC			
R1611	1-216-117-00	RES-CHIP	680K	5%	1/10W	X1302	1-567-505-11	OSCILLATOR, CRYSTAL			
R1612	1-216-113-00	RES-CHIP	470K	5%	1/10W	X1303	1-577-611-11	OSCILATOR, CERAMIC			
R1613	1-216-049-11	RES-CHIP	1K	5%	1/10W	X1305	1-567-505-11	OSCILLATOR, CRYSTAL			
R1614	1-216-117-00	RES-CHIP	680K	5%	1/10W						
R1615	1-216-045-00	RES-CHIP	680	5%	1/10W						
R1616	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1617	1-216-117-00	RES-CHIP	680K	5%	1/10W						
R1618	1-216-045-00	RES-CHIP	680	5%	1/10W						



REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
X1401	1-767-367-21	VIBRATOR, CERAMIC				C5061	1-102-973-00	CERAMIC	100pF	5%	50V
						C5062	1-102-973-00	CERAMIC	100pF	5%	50V
						C5063	1-102-973-00	CERAMIC	100pF	5%	50V
						C5064	1-102-973-00	CERAMIC	100pF	5%	50V
						C5065	1-102-973-00	CERAMIC	100pF	5%	50V

	* A-1346-994-A D BOARD, COMPLETE										

	4-363-414-00	SPACER, MICA				C5066	1-102-973-00	CERAMIC	100pF	5%	50V
	4-382-854-11	SCREW (M3X10), P, SW (+)				C5071	1-126-968-11	ELECT	100μF	20%	50V
	7-682-952-09	SCREW +PSW 3X16				C5072	1-126-968-11	ELECT	100μF	20%	50V
						C5073	1-126-968-11	ELECT	100μF	20%	50V
						C5074	1-126-968-11	ELECT	100μF	20%	50V
	<CAPACITOR>										
C5001	1-104-664-11	ELECT	47μF	20%	25V	C5075	1-126-968-11	ELECT	100μF	20%	50V
C5002	1-126-960-11	ELECT	1μF	20%	50V	C5076	1-126-968-11	ELECT	100μF	20%	50V
C5003	1-104-664-11	ELECT	47μF	20%	25V	C5079	1-126-968-11	ELECT	100μF	20%	50V
C5004	1-101-002-00	CERAMIC	0.0022μF		50V	C5080	1-126-968-11	ELECT	100μF	20%	50V
C5005	1-130-495-00	MYLAR	0.1μF	5%	50V	C5085	1-101-002-00	CERAMIC	0.0022μF		50V
C5006	1-101-002-00	CERAMIC	0.0022μF		50V	C5086	1-130-495-00	MYLAR	0.1μF	5%	50V
C5007	1-102-973-00	CERAMIC	100pF	5%	50V	C5087	1-130-495-00	MYLAR	0.1μF	5%	50V
C5008	1-126-967-11	ELECT	47μF	20%	50V	C5090	1-126-960-11	ELECT	1μF	20%	50V
C5010	1-102-973-00	CERAMIC	100pF	5%	50V	C5093	1-137-150-11	MYLAR	0.01μF	5%	50V
C5011	1-126-967-11	ELECT	47μF	20%	50V	C5094	1-137-150-11	MYLAR	0.01μF	5%	50V
C5012	1-107-645-11	ELECT	22μF	20%	160V	C5096	1-162-115-00	CERAMIC	330pF	10%	2KV
C5013	1-126-967-11	ELECT	47μF	20%	50V	C5097	1-126-933-11	ELECT	100μF	20%	16V
C5014	1-101-002-00	CERAMIC	0.0022μF		50V	C5098	1-126-933-11	ELECT	100μF	20%	16V
C5015	1-101-880-00	CERAMIC	47pF	5%	50V	C5099	1-104-999-11	MYLAR	0.1μF	10%	200V
C5016	1-106-383-00	MYLAR	0.047μF	10%	200V	C5100	1-124-347-51	ELECT	100μF	20%	160V
C5017	1-126-967-11	ELECT	47μF	20%	50V	C5103	1-107-648-91	ELECT	100μF	20%	160V
C5019	1-102-244-00	CERAMIC	220pF	10%	500V	C5104	1-107-648-91	ELECT	100μF	20%	160V
C5020	1-130-495-00	MYLAR	0.1μF	5%	50V	C5106	1-117-667-71	FILM	0.47μF	5%	250V
C5023	1-126-963-11	ELECT	4.7μF	20%	50V	C5107	1-130-495-00	MYLAR	0.1μF	5%	50V
C5024	1-126-942-61	ELECT	1000μF	20%	25V	C5108	1-130-048-00	FILM	220pF	5%	50V
C5025	1-126-942-61	ELECT	1000μF	20%	25V	C5111	1-104-664-11	ELECT	47μF	20%	16V
C5026	1-137-150-11	MYLAR	0.01μF	5%	50V	C5112	1-104-664-11	ELECT	47μF	20%	16V
C5028	1-102-228-00	CERAMIC	470pF	10%	500V	C5113	1-130-495-00	MYLAR	0.1μF	5%	50V
C5029	1-164-096-11	CERAMIC	0.01μF		50V	C5114	1-136-479-11	FILM	0.001μF	5%	50V
C5030	1-117-666-21	FILM	0.39μF	5%	250V	C5116	1-126-967-11	ELECT	47μF	20%	50V
C5031	1-106-220-00	MYLAR	0.1μF	10%	100V	C5118	1-104-664-11	ELECT	47μF	20%	16V
C5032	1-126-972-11	ELECT	1000μF	20%	50V	C5119	1-162-318-11	CERAMIC	0.001μF	10%	500V
C5033	1-101-002-00	CERAMIC	0.0022μF		50V	C5120	1-164-096-11	CERAMIC	0.01μF		50V
C5034	1-136-177-00	FILM	1μF	5%	50V	C5121	1-164-096-11	CERAMIC	0.01μF		50V
C5035	1-126-967-11	ELECT	47μF	20%	50V	C5122	1-164-096-11	CERAMIC	0.01μF		50V
C5036	1-164-096-11	CERAMIC	0.01μF		50V	C5123	1-104-664-11	ELECT	47μF	20%	16V
C5037	1-126-969-11	ELECT	220μF	20%	50V	C5124	1-164-096-11	CERAMIC	0.01μF		50V
C5038	1-117-665-11	FILM	0.33μF	5%	250V	C5200	1-104-664-11	ELECT	47μF	20%	16V
C5039	1-117-640-11	FILM	6800pF	3%	1.2KV	C5201	1-164-096-11	CERAMIC	0.01μF		50V
C5040	1-137-401-11	MYLAR	0.22μF	5%	100V	C5202	1-126-972-11	ELECT	1000μF	20%	50V
C5041	1-137-420-11	MYLAR	0.047μF	10%	100V	C5203	1-136-356-11	MYLAR	470pF	5%	50V
C5042	1-162-116-00	CERAMIC	680pF	10%	2KV	C5204	1-137-366-11	MYLAR	0.0022μF	5%	50V
C5043	1-162-116-00	CERAMIC	680pF	10%	2KV	C5205	1-137-366-11	MYLAR	0.0022μF	5%	50V
C5045	1-162-114-00	CERAMIC	0.0047μF		2KV	C5208	1-136-479-11	FILM	0.001μF	5%	50V
C5047	1-137-423-11	MYLAR	0.15μF	10%	100V	C8002	1-110-626-11	ELECT	330μF	20%	160V
C5048	1-137-423-11	MYLAR	0.15μF	10%	100V	C8003	1-110-626-11	ELECT	330μF	20%	160V
C5049	1-126-933-11	ELECT	100μF	20%	16V	C8004	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C5050	1-130-016-11	FILM	680pF	5%	50V	C8005	1-106-387-00	MYLAR	0.068μF	10%	200V
C5051	1-162-318-11	CERAMIC	0.001μF	10%	500V	C8006	1-126-959-11	ELECT	0.47μF	20%	50V
C5052	1-126-972-11	ELECT	1000μF	20%	50V	C8007	1-137-150-11	MYLAR	0.01μF	10%	100V
						C8008	1-102-030-00	CERAMIC	330pF	10%	500V
						C8010	1-130-481-00	MYLAR	0.0068μF	5%	50V

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

KP-57XBR10W/65XBR10W
RM-Y907 RM-Y907

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REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
C8011	1-126-934-11	ELECT	220μF	20%	16V	C8075	1-126-965-11	ELECT	22μF	20%	50V
C8012	1-130-338-91	FILM	0.01μF	5%	630V	C8077	1-137-150-11	MYLAR	0.01μF	5%	50V
C8013	1-126-964-11	ELECT	10μF	20%	50V	C8078	1-130-495-00	MYLAR	0.1μF	5%	50V
C8015	1-126-933-11	ELECT	100μF	20%	16V	C8079	1-126-967-11	ELECT	47μF	20%	50V
C8016	1-126-964-11	ELECT	10μF	20%	50V	C8080	1-126-967-11	ELECT	47μF	20%	50V
C8017	1-126-964-11	ELECT	10μF	20%	50V	C8081	1-126-967-11	ELECT	47μF	20%	50V
C8018 Δ	1-117-642-11	FILM	8200pF	3%	1.2KV	C8082	1-137-366-11	MYLAR	0.0022μF	5%	50V
C8019	1-163-133-00	CERAMIC CHIP	470pF	5%	50V	C8083	1-126-964-11	ELECT	10μF	20%	50V
C8020	1-162-318-11	CERAMIC	0.001μF	10%	500V	C8084	1-126-967-11	ELECT	47μF	20%	50V
C8021	1-163-237-11	CERAMIC CHIP	27pF	5%	50V	C8085	1-104-661-91	ELECT	330μF	20%	16V
C8022	1-107-652-11	ELECT	10μF	20%	250V	C8086	1-137-150-11	MYLAR	0.01μF	10%	100V
C8023	1-126-767-11	ELECT	1000μF	20%	16V	C8089	1-137-399-11	MYLAR	0.1μF	10%	100V
C8024	1-126-968-11	ELECT	100μF	20%	50V	C8090	1-126-964-11	ELECT	10μF	20%	50V
C8025	1-128-562-11	ELECT	47μF	20%	100V	C8091	1-126-967-11	ELECT	47μF	20%	50V
C8026	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C8092	1-126-964-11	ELECT	10μF	20%	50V
C8028	1-137-368-11	MYLAR	0.0047μF	5%	50V	C8093	1-126-964-11	ELECT	10μF	20%	50V
C8029	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C8094	1-126-964-11	ELECT	10μF	20%	50V
C8030	1-126-967-11	ELECT	47μF	20%	50V	C8095	1-126-967-11	ELECT	47μF	20%	50V
C8031	1-137-374-11	MYLAR	0.047μF	5%	50V	C8096	1-126-967-11	ELECT	47μF	20%	50V
C8032	1-106-387-00	MYLAR	0.068μF	10%	200V	C8097	1-126-967-11	ELECT	47μF	20%	50V
C8033	1-130-495-00	MYLAR	0.1μF	5%	50V	C8098	1-126-967-11	ELECT	47μF	20%	50V
C8034	1-126-967-11	ELECT	47μF	20%	50V	C8099	1-126-964-11	ELECT	10μF	20%	50V
C8035	1-126-967-11	ELECT	47μF	20%	50V	C8100	1-162-114-00	CERAMIC	0.0047μF	2KV	
C8037	1-130-495-00	MYLAR	0.1μF	5%	50V	C8102	1-102-125-00	CERAMIC	0.0047μF	10%	50V
C8038	1-126-967-11	ELECT	47μF	20%	50V	C8103	1-126-964-11	ELECT	10μF	20%	50V
C8039	1-137-420-11	MYLAR	0.047μF	10%	100V	C8104	1-126-961-11	ELECT	2.2μF	20%	50V
C8040	1-126-964-11	ELECT	10μF	20%	50V	C8105	1-137-150-11	MYLAR	0.01μF	5%	100V
C8041	1-130-495-00	MYLAR	0.1μF	5%	50V	C8106	1-137-367-11	MYLAR	0.0033μF	5%	50V
C8042	1-126-967-11	ELECT	47μF	20%	50V	C8107	1-163-224-11	CERAMIC CHIP	7pF	50V	
C8043	1-130-495-00	MYLAR	0.1μF	5%	50V	C8108	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C8044	1-126-964-11	ELECT	10μF	20%	50V	C8109	1-107-714-11	ELECT	10μF	20%	16V
C8045	1-137-431-11	MYLAR	560pF	5%	50V	C8110	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C8046	1-130-495-00	MYLAR	0.1μF	5%	50V	C8112	1-102-125-00	CERAMIC	0.0047μF	10%	50V
C8047	1-130-495-00	MYLAR	0.1μF	5%	50V	C8114	1-126-967-11	ELECT	47μF	20%	50V
C8048	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	C8115	1-126-967-11	ELECT	47μF	20%	50V
C8049	1-126-967-11	ELECT	47μF	20%	50V	C8116	1-126-965-11	ELECT	22μF	20%	50V
C8050	1-126-967-11	ELECT	47μF	20%	50V	C8117	1-104-664-11	ELECT	47μF	20%	16V
C8051	1-126-967-11	ELECT	47μF	20%	50V	C8118	1-104-664-11	ELECT	47μF	20%	16V
C8052	1-163-239-11	CERAMIC CHIP	33pF	5%	50V	<CONNECTOR>					
C8053	1-126-960-11	ELECT	1μF	20%	50V	CN5001*	1-564-506-11	PLUG, CONNECTOR 3P			
C8054	1-126-960-11	ELECT	1μF	20%	50V	CN5002*	1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P			
C8055	1-126-961-11	ELECT	2.2μF	20%	50V	CN5003*	1-564-509-11	PLUG, CONNECTOR 6P			
C8057	1-107-714-11	ELECT	10μF	20%	16V	CN5004*	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P			
C8059	1-126-965-11	ELECT	22μF	20%	50V	CN5005*	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P			
C8060	1-126-963-11	ELECT	4.7μF	20%	50V	CN5006*	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P			
C8061	1-126-965-11	ELECT	22μF	20%	50V	CN5007*	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P			
C8062	1-126-965-11	ELECT	22μF	20%	50V	CN5008*	1-564-506-11	PLUG, CONNECTOR 3P			
C8064	1-130-495-00	MYLAR	0.1μF	5%	50V	CN5009*	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P			
C8065	1-126-964-11	ELECT	10μF	20%	50V	CN5010*	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P			
C8066	1-130-471-00	MYLAR	0.001μF	5%	50V	CN5011*	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P			
C8067	1-104-661-91	ELECT	330μF	20%	16V	CN5012*	1-564-507-11	PLUG, CONNECTOR 4P			
C8068	1-136-298-00	MYLAR	0.0033μF	5%	100V	CN5013*	1-564-507-11	PLUG, CONNECTOR 4P			
C8069	1-126-967-11	ELECT	47μF	20%	50V	CN5014*	1-564-507-11	PLUG, CONNECTOR 4P			
C8071	1-126-963-11	ELECT	4.7μF	20%	50V	CN5015	1-695-915-11	TAB (CONTACT)			
C8072	1-126-964-11	ELECT	10μF	20%	50V						
C8073	1-126-967-11	ELECT	47μF	20%	50V						
C8074	1-137-410-11	MYLAR	0.001μF	10%	100V						



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
CN8001*	1-691-135-11	PIN, CONNECTOR (PC BOARD) 4P		D8029	8-719-914-43	DIODE	DAN202K-T-146
CN8002	1-695-915-11	TAB (CONTACT)		D8030	8-719-400-75	DIODE	MA3091-TX
CN8003*	1-564-509-11	PLUG, CONNECTOR 6P		D8031	8-719-105-82	DIODE	MA3051M-TX
CN8004*	1-564-510-11	PLUG, CONNECTOR 7P		D8032	8-719-302-43	DIODE	RGP10GPKG23
CN8005*	1-564-507-11	PLUG, CONNECTOR 4P		D8033	8-719-914-43	DIODE	DAN202K-T-146
CN8006*	1-564-507-11	PLUG, CONNECTOR 4P		D8034	8-719-028-00	DIODE	MA3033L-TX
CN8007*	1-506-371-00	PIN, CONNECTOR 2P		D8035	8-719-105-82	DIODE	MA3051M-TX
CN8008*	1-506-371-00	PIN, CONNECTOR 2P		D8036	8-719-914-43	DIODE	DAN202K-T-146
CN8010	1-695-915-11	TAB (CONTACT)		D8037	8-719-914-43	DIODE	DAN202K-T-146
		<DIODE>		D8038	8-719-106-81	DIODE	MA3130H-TX
D5001	8-719-991-33	DIODE	1SS133T-77	D8039	8-719-110-17	DIODE	MTZJ-T-77-10
D5002	8-719-991-33	DIODE	1SS133T-77	D8040	8-719-914-43	DIODE	DAN202K-T-146
D5004	8-719-991-33	DIODE	1SS133T-77	D8041	8-719-106-81	DIODE	MA3130H-TX
D5005	8-719-109-89	DIODE	MTZJ-T-77-5.6	D8042	8-759-157-40	DIODE	HZT33-02TE
D5006	8-719-991-33	DIODE	1SS133T-77	D8043	8-719-914-43	DIODE	DAN202K-T-146
D5008	8-719-991-33	DIODE	1SS133T-77	D8044	8-719-979-85	DIODE	RGP15GPKG23
D5009	8-719-979-85	DIODE	RGP15GPKG23	D8045	8-719-400-75	DIODE	MA3091-TX
D5010	8-719-908-03	DIODE	GP08DPKG23	D8046	8-719-402-57	DIODE	MA3150H-TX
D5011	8-719-908-03	DIODE	GP08DPKG23	D8047	8-719-402-57	DIODE	MA3150H-TX
D5013	8-719-979-99	DIODE	ERD08M-15	D8048	8-719-914-43	DIODE	DAN202K-T-146
D5014	8-719-991-33	DIODE	1SS133T-77	D8049	8-719-979-85	DIODE	RGP15GPKG23
D5015	8-719-018-82	DIODE	RGP02-20EL-6394	D8050	8-719-914-43	DIODE	DAN202K-T-146
D5016	8-719-110-61	DIODE	MTZJ-T-77-24A	D8051	8-719-914-44	DIODE	DAP202K-T-146
D5017	8-719-110-61	DIODE	MTZJ-T-77-24A	D8052	8-719-914-44	DIODE	DAP202K-T-146
D5019	8-719-900-95	DIODE	V06C-T52			<FERRITEBEAD>	
D5020	8-719-900-95	DIODE	V06C-T52	FB5001	1-410-396-41	FERRITE	0.45μH
D5021	8-719-920-67	DIODE	ERC91-02			<IC>	
D5022	8-719-991-33	DIODE	1SS133T-77	IC5001	8-759-701-88	IC	NJM7912FA
D5024	8-719-923-86	DIODE	MTZJ-T-77-15	IC5002	8-759-701-79	IC	NJM7812FA
D5025	8-719-991-33	DIODE	1SS133T-77	IC5004	8-759-192-71	IC	STV9379
D5027	8-719-923-86	DIODE	MTZJ-T-77-15	IC5005	8-749-014-67	IC	STK392-020
D5028	8-719-991-33	DIODE	1SS133T-77	IC5006	8-749-014-67	IC	STK392-020
D5115	8-719-018-82	DIODE	RGP02-20EL-6394	IC5008	8-759-103-93	IC	LM393P
D8001	8-719-105-82	DIODE	MA3051M-TX	IC5009	8-759-634-51	IC	NJM4558D
D8002	8-719-914-43	DIODE	DAN202K-T-146	IC5010	8-759-135-80	IC	LM358P
D8003	8-719-979-85	DIODE	RGP15GPKG23	IC8001	8-759-711-28	IC	NJM2058D
D8004	8-719-914-43	DIODE	DAN202K-T-146	IC8002	8-759-103-93	IC	LM393P
D8005	8-719-914-43	DIODE	DAN202K-T-146	IC8003	8-759-701-84	IC	NJM7905FA
D8006	8-719-914-43	DIODE	DAN202K-T-146	IC8004	8-759-390-57	IC	LM2940CT-5.0
D8007	8-719-945-80	DIODE	ERC06-15STP11	IC8005	8-759-183-37	IC	CA0007AD
D8008	8-719-106-81	DIODE	MA3130H-TX	IC8006	8-759-103-93	IC	LM393P
D8009	8-719-106-81	DIODE	MA3130H-TX	IC8007	8-759-711-28	IC	NJM2058D
D8010	8-719-054-52	DIODE	D8LC20U-4015	IC8008	8-759-135-80	IC	LM358P
D8011	8-719-945-80	DIODE	ERC06-15STP11	IC8009	8-759-135-80	IC	LM358P
D8013	8-719-028-45	DIODE	D2L20U-F	IC8010	8-759-103-93	IC	LM393P
D8014	8-719-302-43	DIODE	RGP10GPKG23	IC8011	8-759-634-51	IC	NJM4558D
D8015	8-719-914-43	DIODE	DAN202K-T-146			<COIL>	
D8017	8-719-914-43	DIODE	DAN202K-T-146	L5001	1-412-533-21	INDUCTOR	47μH
D8018	8-719-983-14	DIODE	MTZJ-T-77-3.9	L5002	1-412-533-21	INDUCTOR	47μH
D8021	8-719-914-43	DIODE	DAN202K-T-146	L5003	1-412-533-21	INDUCTOR	47μH
D8023	8-719-914-43	DIODE	DAN202K-T-146	L5004	1-412-533-21	INDUCTOR	47μH
D8024	8-719-914-43	DIODE	DAN202K-T-146	L5007	1-416-937-11	COIL, HORIZONTAL LINEARITY	
D8025	8-719-914-43	DIODE	DAN202K-T-146				
D8026	8-719-914-43	DIODE	DAN202K-T-146				
D8027	8-719-914-43	DIODE	DAN202K-T-146				

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

KP-57XBR10W/65XBR10W
RM-Y907 RM-Y907

D

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L5010	1-412-533-21	INDUCTOR 47μH		Q8004	8-729-823-81	TRANSISTOR 2SC4632LS-CB7	
L5011	1-412-533-21	INDUCTOR 47μH		Q8005	8-729-231-55	TRANSISTOR 2SC2878AB-TPE2	
L5012	1-412-533-21	INDUCTOR 47μH		Q8006	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L5013	1-412-533-21	INDUCTOR 47μH		Q8007	8-729-048-35	TRANSISTOR 2SC3997S-SONY-YB	
L5016	1-459-958-11	INDUCTOR 15mH		Q8008	8-729-024-30	TRANSISTOR IRFI640LF	
L5017	1-459-958-11	INDUCTOR 15mH		Q8009	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L5018	1-411-594-11	INDUCTOR 5mH		Q8010	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L5019	1-459-109-00	COIL,DUST CORE		Q8013	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L5020	1-406-663-21	INDUCTOR 47μH		Q8014	8-729-823-81	TRANSISTOR 2SC4632LS-CB7	
L8001	1-414-193-41	INDUCTOR 220μH		Q8015	8-729-140-93	TRANSISTOR 2SB734-T-4	
L8002	1-406-977-21	INDUCTOR 100μH		Q8016	8-729-140-96	TRANSISTOR 2SD774-T-34	
L8004	1-412-521-31	INDUCTOR 4.7μH		Q8017	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L8005	1-412-533-21	INDUCTOR 47μH		Q8018	8-729-231-55	TRANSISTOR 2SC2878AB-TPE2	
L8006	1-412-533-21	INDUCTOR 47μH		Q8019	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L8008	1-412-519-11	INDUCTOR 3.3μH		Q8020	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
<NEON LAMP>				Q8021	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
NL8001	1-517-778-21	LAMP, NEON		Q8022	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
NL8002	1-517-778-21	LAMP, NEON		Q8023	8-729-027-38	TRANSISTOR DTA144EKA-T146	
NL8003	1-517-778-21	LAMP, NEON		Q8024	1-801-806-11	TRANSISTOR DTC144EKA-T146	
<IC LINK>				Q8025	8-729-027-38	TRANSISTOR DTA144EKA-T146	
PS8001 Δ	1-533-595-21	LINK, IC		Q8026	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
<TRANSISTOR>				Q8027	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5002	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA		Q8028	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5004	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		Q8029	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
Q5005	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		Q8030	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5006	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		<RESISTOR>			
Q5008	8-729-119-80	TRANSISTOR 2SC2688-LK		R5002	1-249-417-11	CARBON 1K 5%	1/4W
Q5009	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA		R5003	1-249-417-11	CARBON 1K 5%	1/4W
Q5010	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA		R5004	1-249-425-11	CARBON 4.7K 5%	1/4W
Q5013	8-729-048-35	TRANSISTOR 2SC3997S-SONY-YB		R5009	1-249-421-11	CARBON 2.2K 5%	1/4W
Q5014	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA		R5011	1-247-843-11	CARBON 3.3K 5%	1/4W
Q5015	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R5012	1-249-425-11	CARBON 4.7K 5%	1/4W
Q5016	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R5013	1-249-425-11	CARBON 4.7K 5%	1/4W
Q5019	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R5016	1-249-429-11	CARBON 10K 5%	1/4W
Q5022	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R5017	1-249-433-11	CARBON 22K 5%	1/4W
Q5023	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA		R5018	1-247-843-11	CARBON 3.3K 5%	1/4W
Q5024	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R5020	1-249-437-11	CARBON 47K 5%	1/4W
Q5025	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA		R5021	1-215-446-00	METAL 11K 1%	1/4W
Q5026	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R5022	1-249-433-11	CARBON 22K 5%	1/4W
Q5027	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R5023	1-249-433-11	CARBON 22K 5%	1/4W
Q5029	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R5026	1-215-922-11	METAL OXIDE 6.8K 5%	3W
Q5030	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA		R5028	1-249-377-11	CARBON 0.47 5%	1/4W
Q5031	8-729-038-83	TRANSISTOR 2SK2251-01-F19		R5029	1-249-377-11	CARBON 0.47 5%	1/4W
Q5033	8-729-026-79	TRANSISTOR IRFI620G		R5030	1-249-437-11	CARBON 47K 5%	1/4W
Q5034	8-729-231-55	TRANSISTOR 2SC2878AB-TPE2		R5031	1-216-435-11	METAL OXIDE 2.7K 5%	1W
Q5035	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R5032	1-215-922-11	METAL OXIDE 6.8K 5%	3W
Q5036	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA		R5033	1-249-417-11	CARBON 1K 5%	1/4W
Q5037	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA		R5034	1-249-429-11	CARBON 10K 5%	1/4W
Q8001	8-729-119-80	TRANSISTOR 2SC2688-LK		R5035	1-249-429-11	CARBON 10K 5%	1/4W
Q8002	8-729-122-12	TRANSISTOR 2SA1221-T-M		R5039	1-249-429-11	CARBON 10K 5%	1/4W
Q8002	8-729-122-13	TRANSISTOR 2SA1221-T-KLM		R5040	1-249-417-11	CARBON 1K 5%	1/4W
Q8003	8-729-119-80	TRANSISTOR 2SC2688-LK		R5042	1-249-425-11	CARBON 4.7K 5%	1/4W
				R5043	1-249-417-11	CARBON 1K 5%	1/4W
				R5046	1-216-391-11	METAL OXIDE 1.5 5%	3W



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R5047	1-215-449-00	METAL	15K	1%	1/4W	R5117	1-214-808-11	METAL	4.7	1%	1/2W
R5049	1-215-905-11	METAL OXIDE	10	5%	3W	R5118	1-214-808-11	METAL	4.7	1%	1/2W
						R5119	1-533-595-21	LINK, IC			
R5050	1-247-807-31	CARBON	100	5%	1/4W	R5120	1-533-595-21	LINK, IC			
R5051	1-249-435-11	CARBON	33K	5%	1/4W	R5121	1-214-808-11	METAL	4.7	1%	1/2W
R5054	1-249-413-11	CARBON	470	5%	1/4W						
R5055	1-215-912-11	METAL OXIDE	150	5%	3W	R5122	1-214-808-11	METAL	4.7	1%	1/2W
R5057	1-215-445-00	METAL	10K	1%	1/4W	R5123	1-214-808-11	METAL	4.7	1%	1/2W
						R5124	1-214-808-11	METAL	4.7	1%	1/2W
R5058	1-215-447-00	METAL	12K	1%	1/4W	R5125	1-533-595-21	LINK, IC			
R5059	1-249-383-11	CARBON	1.5	5%	1/4W	R5126	1-533-595-21	LINK, IC			
R5061	1-215-445-00	METAL	10K	1%	1/4W						
R5062	1-247-735-11	SOLID	47	20%	1/2W	R5127	1-214-808-11	METAL	4.7	1%	1/2W
R5063	1-247-807-31	CARBON	100	5%	1/4W	R5128	1-214-808-11	METAL	4.7	1%	1/2W
						R5129	1-214-808-11	METAL	4.7	1%	1/2W
R5067	1-214-800-11	METAL	2.2	1%	1/2W	R5130	1-214-808-11	METAL	4.7	1%	1/2W
R5068	1-249-429-11	CARBON	10K	5%	1/4W	R5131	1-214-808-11	METAL	4.7	1%	1/2W
R5069	1-249-429-11	CARBON	10K	5%	1/4W						
R5070	1-216-476-11	METAL OXIDE	180	5%	3W	R5132	1-214-808-11	METAL	4.7	1%	1/2W
R5071	1-214-800-11	METAL	2.2	1%	1/2W	R5133	1-214-808-11	METAL	4.7	1%	1/2W
						R5134	1-214-808-11	METAL	4.7	1%	1/2W
R5072	1-247-807-31	CARBON	100	5%	1/4W	R5135	1-214-808-11	METAL	4.7	1%	1/2W
R5073	1-215-432-00	METAL	3K	1%	1/4W	R5136	1-214-808-11	METAL	4.7	1%	1/2W
R5074	1-249-437-11	CARBON	47K	5%	1/4W						
R5075	1-215-445-00	METAL	10K	1%	1/4W	R5137	1-214-808-11	METAL	4.7	1%	1/2W
R5077	1-215-913-11	METAL OXIDE	220	5%	3W	R5138	1-214-808-11	METAL	4.7	1%	1/2W
						R5143	1-249-429-11	CARBON	10K	5%	1/4W
R5078	1-216-476-11	METAL OXIDE	180	5%	3W	R5144	1-249-429-11	CARBON	10K	5%	1/4W
R5081	1-247-807-31	CARBON	100	5%	1/4W	R5145	1-249-429-11	CARBON	10K	5%	1/4W
R5082	1-247-807-31	CARBON	100	5%	1/4W						
R5083	1-247-807-31	CARBON	100	5%	1/4W	R5146	1-249-429-11	CARBON	10K	5%	1/4W
R5084	1-247-807-31	CARBON	100	5%	1/4W	R5147	1-249-429-11	CARBON	10K	5%	1/4W
						R5148	1-249-429-11	CARBON	10K	5%	1/4W
R5085	1-247-807-31	CARBON	100	5%	1/4W	R5149	1-249-429-11	CARBON	10K	5%	1/4W
R5086	1-247-807-31	CARBON	100	5%	1/4W	R5150	1-249-429-11	CARBON	10K	5%	1/4W
R5087	1-247-843-11	CARBON	3.3K	5%	1/4W						
R5088	1-247-843-11	CARBON	3.3K	5%	1/4W	R5151	1-249-429-11	CARBON	10K	5%	1/4W
R5089	1-247-843-11	CARBON	3.3K	5%	1/4W	R5152	1-249-429-11	CARBON	10K	5%	1/4W
						R5153	1-249-429-11	CARBON	10K	5%	1/4W
R5090	1-247-843-11	CARBON	3.3K	5%	1/4W	R5154	1-249-429-11	CARBON	10K	5%	1/4W
R5091	1-249-417-11	CARBON	1K	5%	1/4W	R5155	1-249-425-11	CARBON	4.7K	5%	1/4W
R5092	1-249-417-11	CARBON	1K	5%	1/4W						
R5093	1-247-843-11	CARBON	3.3K	5%	1/4W	R5156	1-215-425-00	METAL	1.5K	1%	1/4W
R5095	1-247-843-11	CARBON	3.3K	5%	1/4W	R5161	1-216-472-00	METAL OXIDE	39	5%	3W
						R5165	1-260-312-11	CARBON	47	5%	1/2W
R5097	1-249-417-11	CARBON	1K	5%	1/4W	R5166	1-215-477-00	METAL	220K	1%	1/4W
R5098	1-247-807-31	CARBON	100	5%	1/4W	R5167	1-260-312-11	CARBON	47	5%	1/2W
R5099	1-249-417-11	CARBON	1K	5%	1/4W						
R5100	1-247-807-31	CARBON	100	5%	1/4W	R5168	1-260-312-11	CARBON	47	5%	1/2W
R5101	1-214-808-11	METAL	4.7	1%	1/2W	R5169	1-215-445-00	METAL	10K	1%	1/4W
						R5170	1-215-463-00	METAL	56K	1%	1/4W
R5102	1-214-808-11	METAL	4.7	1%	1/2W	R5171	1-215-449-00	METAL	15K	1%	1/4W
R5103	1-214-808-11	METAL	4.7	1%	1/2W	R5172	1-215-485-00	METAL	470K	1%	1/4W
R5104	1-214-808-11	METAL	4.7	1%	1/2W						
R5105	1-214-808-11	METAL	4.7	1%	1/2W	R5173	1-215-485-00	METAL	470K	1%	1/4W
R5106	1-214-808-11	METAL	4.7	1%	1/2W	R5174	1-215-465-00	METAL	68K	1%	1/4W
						R5175	1-215-905-11	METAL OXIDE	10	5%	3W
R5107	1-249-417-11	CARBON	1K	5%	1/4W	R5176	1-215-905-11	METAL OXIDE	10	5%	3W
R5108	1-249-417-11	CARBON	1K	5%	1/4W	R5177	1-215-469-00	METAL	100K	1%	1/4W
R5109	1-214-808-11	METAL	4.7	1%	1/2W						
R5110	1-214-808-11	METAL	4.7	1%	1/2W	R5178	1-247-843-11	CARBON	3.3K	5%	1/4W
R5111	1-214-808-11	METAL	4.7	1%	1/2W	R5179	1-249-425-11	CARBON	4.7K	5%	1/4W
						R5180	1-249-421-11	CARBON	2.2K	5%	1/4W
R5112	1-214-808-11	METAL	4.7	1%	1/2W	R5181	1-249-422-11	CARBON	2.7K	5%	1/4W
R5113	1-214-808-11	METAL	4.7	1%	1/2W	R5182	1-247-895-91	CARBON	470K	5%	1/4W
R5114	1-214-808-11	METAL	4.7	1%	1/2W						
R5115	1-533-595-21	LINK, IC				R5183	1-215-431-00	METAL	2.7K	1%	1/4W
R5116	1-533-595-21	LINK, IC				R5184	1-249-417-11	CARBON	1K	5%	1/4W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R5186	1-247-843-11	CARBON	3.3K 5% 1/4W	R8030	1-215-926-00	METAL OXIDE	33K 5% 3W
R5187	1-249-431-11	CARBON	15K 5% 1/4W	R8031	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5188	1-249-429-11	CARBON	10K 5% 1/4W	R8032	1-216-049-11	RES-CHIP	1K 5% 1/10W
R5189	1-249-417-11	CARBON	1K 5% 1/4W	R8033	1-215-926-00	METAL OXIDE	33K 5% 3W
R5190	1-249-377-11	CARBON	0.47 5% 1/4W	R8036	1-216-083-00	RES-CHIP	27K 5% 1/10W
R5191	1-249-417-11	CARBON	1K 5% 1/4W	R8037	1-216-089-11	RES-CHIP	47K 5% 1/10W
R5192	1-249-421-11	CARBON	2.2K 5% 1/4W	R8038	1-216-397-11	METAL OXIDE	4.7 5% 3W
R5193	1-249-439-11	CARBON	68K 5% 1/4W	R8039	1-216-397-11	METAL OXIDE	4.7 5% 3W
R5194	1-215-429-00	METAL	2.2K 1% 1/4W	R8040	1-216-397-11	METAL OXIDE	4.7 5% 3W
R5195	1-215-449-00	METAL	15K 1% 1/4W	R8041	1-215-926-00	METAL OXIDE	33K 5% 3W
R5196	1-215-449-00	METAL	15K 1% 1/4W	R8042	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5197	1-247-807-31	CARBON	100 5% 1/4W	R8044	1-216-049-11	RES-CHIP	1K 5% 1/10W
R5199	1-215-453-00	METAL	22K 1% 1/4W	R8045	1-215-918-00	METAL OXIDE	1.5K 5% 3W
R5200	1-249-429-11	CARBON	10K 5% 1/4W	R8046	1-216-025-11	RES-CHIP	100 5% 1/10W
R5203	1-215-437-00	METAL	4.7K 1% 1/4W	R8047	1-215-918-00	METAL OXIDE	1.5K 5% 3W
R5204	1-249-429-11	CARBON	10K 5% 1/4W	R8048	1-215-918-00	METAL OXIDE	1.5K 5% 3W
R5205	1-249-425-11	CARBON	4.7K 5% 1/4W	R8049	1-216-037-00	RES-CHIP	330 5% 1/10W
R5206	1-249-425-11	CARBON	4.7K 5% 1/4W	R8050	1-260-328-11	CARBON	1K 5% 1/2W
R5207	1-216-395-00	METAL OXIDE	3.3 5% 3W	R8051	1-216-025-11	RES-CHIP	100 5% 1/10W
R5208	1-216-395-00	METAL OXIDE	3.3 5% 3W	R8055	1-260-087-11	CARBON	100 5% 1/2W
R5209	1-216-471-11	METAL OXIDE	27 5% 3W	R8057	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
R5210	1-215-908-00	METAL OXIDE	33 5% 3W	R8058	1-216-025-11	RES-CHIP	100 5% 1/10W
R5214	1-249-429-11	CARBON	10K 5% 1/4W	R8059	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R5215	1-249-437-11	CARBON	47K 5% 1/4W	R8060	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R5216	1-249-422-11	CARBON	2.7K 5% 1/4W	R8063	1-216-039-00	RES-CHIP	390 5% 1/10W
R5217	1-249-429-11	CARBON	10K 5% 1/4W	R8064	1-216-469-11	METAL OXIDE	12 5% 3W
R5218	1-249-417-11	CARBON	1K 5% 1/4W	R8067	1-216-059-00	RES-CHIP	2.7K 5% 1/10W
R5235	1-215-922-11	METAL OXIDE	6.8K 5% 3W	R8068	1-216-037-00	RES-CHIP	330 5% 1/10W
R5236	1-215-857-11	METAL OXIDE	10 5% 1W	R8069	1-216-469-11	METAL OXIDE	12 5% 3W
R8001	1-249-425-11	CARBON	4.7K 5% 1/4W	R8070	1-260-316-51	CARBON	100 5% 1/2W
R8002	1-249-431-11	CARBON	15K 5% 1/4W	R8071	1-216-113-00	RES-CHIP	470K 5% 1/10W
R8003	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R8072	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8004	1-260-326-11	CARBON	680 5% 1/2W	R8073	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
R8005	1-215-925-11	METAL OXIDE	22K 5% 3W	R8074	1-216-059-00	RES-CHIP	2.7K 5% 1/10W
R8006	1-260-123-11	CARBON	100K 5% 1/2W	R8075	1-260-316-51	CARBON	100 5% 1/2W
R8007	1-215-925-11	METAL OXIDE	22K 5% 3W	R8076	1-216-105-91	RES-CHIP	220K 5% 1/10W
R8008	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	R8077	1-216-091-00	RES-CHIP	56K 5% 1/10W
R8009	1-216-435-11	METAL OXIDE	2.7K 5% 1W	R8080	1-216-063-91	RES-CHIP	3.9K 5% 1/10W
R8010	1-216-025-11	RES-CHIP	100 5% 1/10W	R8081	1-216-077-91	RES-CHIP	15K 5% 1/10W
R8011	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R8082	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8012	1-215-918-00	METAL OXIDE	1.5K 5% 3W	R8083	1-216-077-91	RES-CHIP	15K 5% 1/10W
R8013	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R8084	1-216-049-11	RES-CHIP	1K 5% 1/10W
R8014	1-216-073-00	RES-CHIP	10K 5% 1/10W	R8085	1-249-377-11	CARBON	0.47 5% 1/4W
R8015	1-216-049-11	RES-CHIP	1K 5% 1/10W	R8086	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R8016	1-215-918-00	METAL OXIDE	1.5K 5% 3W	R8087	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8017	1-216-073-00	RES-CHIP	10K 5% 1/10W	R8088	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8018	1-216-073-00	RES-CHIP	10K 5% 1/10W	R8090	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R8019	1-215-905-11	METAL OXIDE	10 5% 3W	R8091	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R8020	1-215-918-00	METAL OXIDE	1.5K 5% 3W	R8092	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8021	1-216-073-00	RES-CHIP	10K 5% 1/10W	R8093	1-216-049-11	RES-CHIP	1K 5% 1/10W
R8022	1-216-097-11	RES-CHIP	100K 5% 1/10W	R8094	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R8023	1-215-870-11	METAL OXIDE	1.5K 5% 1W	R8095	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8024	1-249-429-11	CARBON	10K 5% 1/4W	R8096	1-216-045-00	RES-CHIP	680 5% 1/10W
R8026	1-215-926-00	METAL OXIDE	33K 5% 3W	R8097	1-216-081-00	RES-CHIP	22K 5% 1/10W
R8027	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	R8098	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8028	1-216-089-11	RES-CHIP	47K 5% 1/10W	R8099	1-216-059-00	RES-CHIP	2.7K 5% 1/10W
R8029	1-216-489-11	METAL OXIDE	27K 5% 3W				

KP-57XBR10W/65XBR10W

RM-Y907 RM-Y907



Les composants identifiés par une trame et une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark $\triangle$ are critical for safety. Replace only with part number specified.

- The components identified by $\blacktriangle$ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF. NO.	PART NO.	DESCRIPTION	REMARK
R8100	1-216-097-11	RES-CHIP 100K 5%	1/10W
R8102	1-216-073-00	RES-CHIP 10K 5%	1/10W
R8103	1-216-053-00	RES-CHIP 1.5K 5%	1/10W
R8104	1-216-295-11	SHORT 0	
R8105	1-216-689-11	RES-CHIP 39K 5%	1/10W
R8106	1-216-089-11	RES-CHIP 47K 5%	1/10W
R8107	1-216-053-00	RES-CHIP 1.5K 5%	1/10W
R8108	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
R8109	1-216-081-00	RES-CHIP 22K 5%	1/10W
R8110	1-216-089-11	RES-CHIP 47K 5%	1/10W
R8111	1-216-041-00	RES-CHIP 470 5%	1/10W
R8112	1-216-077-91	RES-CHIP 15K 5%	1/10W
R8113	1-216-077-91	RES-CHIP 15K 5%	1/10W
R8114	1-216-025-11	RES-CHIP 100 5%	1/10W
R8115	1-216-089-11	RES-CHIP 47K 5%	1/10W
R8116	1-216-097-11	RES-CHIP 100K 5%	1/10W
R8117	1-208-806-11	METAL CHIP 10K 0.5%	1/10W
R8118	1-216-053-00	RES-CHIP 1.5K 5%	1/10W
R8119	1-216-041-00	RES-CHIP 470 5%	1/10W
R8120	1-216-049-11	RES-CHIP 1K 5%	1/10W
R8121	1-249-377-11	CARBON 0.47 5%	1/4W
R8122	1-216-097-11	RES-CHIP 100K 5%	1/10W
R8123	1-208-818-11	METAL CHIP 33K 0.5%	1/10W
R8125	1-208-828-11	METAL CHIP 82K 0.5%	1/10W
R8127	1-216-037-00	RES-CHIP 330 5%	1/10W
R8128	1-216-073-00	RES-CHIP 10K 5%	1/10W
R8129	1-208-822-11	METAL CHIP 47K 0.5%	1/10W
R8132	1-208-806-11	METAL CHIP 10K 0.5%	1/10W
R8133	1-208-832-11	METAL CHIP 120K 0.5%	1/10W
R8134	1-208-834-11	METAL CHIP 150K 0.5%	1/10W
R8135	1-208-830-11	METAL CHIP 100K 0.5%	1/10W
R8136	1-216-103-00	RES-CHIP 180K 5%	1/10W
R8137	1-208-806-11	METAL CHIP 10K 0.5%	1/10W
R8138	1-216-025-11	RES-CHIP 100 5%	1/10W
R8139	1-216-103-00	RES-CHIP 180K 5%	1/10W
R8140	1-208-822-11	METAL CHIP 47K 0.5%	1/10W
R8154	1-216-043-91	RES-CHIP 560 5%	1/10W
R8155	1-216-049-11	RES-CHIP 1K 5%	1/10W
R8156	1-214-749-00	METAL 6.8K 1%	1/4W
R8157	1-216-041-00	RES-CHIP 470 5%	1/10W
R8160	1-214-747-00	METAL 5.6K 1%	1/4W
R8161	1-214-729-00	METAL 1K 1%	1/4W
R8162	1-214-757-00	METAL 15K 1%	1/4W
R8163	1-214-757-00	METAL 15K 1%	1/4W
R8164	1-214-757-00	METAL 15K 1%	1/4W
R8165	1-214-759-00	METAL 18K 1%	1/4W
R8166	1-208-814-91	METAL CHIP 22K 0.5%	1/10W
R8167	1-216-057-00	RES-CHIP 2.2K 5%	1/10W
R8168	1-208-802-11	METAL CHIP 6.8K 0.5%	1/10W
R8170	1-216-097-11	RES-CHIP 100K 5%	1/10W
R8171	1-216-097-11	RES-CHIP 100K 5%	1/10W
R8172	1-216-073-00	RES-CHIP 10K 5%	1/10W
R8173	1-208-812-11	METAL CHIP 18K 0.5%	1/10W
R8174	1-216-025-11	RES-CHIP 100 5%	1/10W
R8175	1-216-073-00	RES-CHIP 10K 5%	1/10W
R8176	1-216-073-00	RES-CHIP 10K 5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R8177	1-216-462-00	METAL OXIDE 8.2K 5%	2W
R8178	1-215-897-11	METAL OXIDE 6.8K 5%	2W
R8183	1-260-292-11	CARBON 1 5%	1/2W
R8184	1-216-051-00	RES-CHIP 1.2K 5%	1/10W
R8185	1-216-081-00	RES-CHIP 22K 5%	1/10W
R8190	1-208-798-11	METAL CHIP 4.7K 0.5%	1/10W
R8191	1-208-806-11	METAL CHIP 10K 0.5%	1/10W
R8192	1-208-802-11	METAL CHIP 6.8K 0.5%	1/10W
R8193	1-208-814-91	METAL CHIP 22K 0.5%	1/10W
$\blacktriangle$ R8194 $\triangle$		CARBON	1/4W
R8195	1-208-812-11	METAL CHIP 18K 0.5%	1/10W
$\blacktriangle$ R8196 $\triangle$		CARBON	1/4W
R8197	1-260-087-11	CARBON 100 5%	1/2W
R8198	1-214-769-00	METAL 47K 1%	1/4W
R8199	1-260-288-11	CARBON 0.47 5%	1/2W
R8200	1-247-887-00	CARBON 220K 5%	1/4W
R8201	1-216-377-11	METAL OXIDE 4.7 5%	2W
R8202	1-216-097-11	RES-CHIP 100K 5%	1/10W
R8203	1-216-073-00	RES-CHIP 10K 5%	1/10W
R8204	1-216-081-00	RES-CHIP 22K 5%	1/10W
R8205	1-216-099-00	RES-CHIP 120K 5%	1/10W
R8206	1-216-096-00	RES-CHIP 91K 5%	1/10W
R8207	1-216-073-00	RES-CHIP 10K 5%	1/10W
R8208	1-216-096-00	RES-CHIP 91K 5%	1/10W
R8209	1-216-073-00	RES-CHIP 10K 5%	1/10W
R8210	1-216-097-11	RES-CHIP 100K 5%	1/10W
R8211	1-260-087-11	CARBON 100 5%	1/2W
R8213	1-216-095-00	RES-CHIP 82K 5%	1/10W
R8214	1-216-097-11	RES-CHIP 100K 5%	1/10W
R8216	1-216-073-00	RES-CHIP 10K 5%	1/10W
R8217	1-216-069-00	RES-CHIP 6.8K 5%	1/10W
R8218	1-216-095-00	RES-CHIP 82K 5%	1/10W
R8219	1-216-085-00	RES-CHIP 33K 5%	1/10W
R8221	1-216-489-11	METAL OXIDE 27K 5%	3W
$\blacktriangle$ R8231 $\triangle$		METAL	1/4W
$\blacktriangle$ R8232 $\triangle$		METAL	1/4W
		<SPARK GAP>	
SG8002	1-519-422-11	GAP, SPARK	
		<TRANSFORMER>	
T5001	1-437-209-11	TRANSFORMER, HORIZONTAL DRIVE	
T8001 $\triangle$	1-437-209-11	TRANSFORMER, HORIZONTAL DRIVE	
T8002 $\triangle$	1-431-955-11	TRANSFORMER, FERRITE (LOT)	
T8003 $\triangle$	1-453-285-11	FBT ASSY, NX-4006	

		* A-1373-761-A U BOARD, COMPLETE	

		<CAPACITOR>	
C3501	1-107-823-11	CERAMIC CHIP 0.47 μ F 10%	16V

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

KP-57XBR10W/65XBR10W
RM-Y907 RM-Y907



REF. NO.	PART NO.	DESCRIPTION	REMARK		
C3502	1-163-038-11	CERAMIC CHIP 0.1μF	25V		
C3504	1-107-823-11	CERAMIC CHIP 0.47μF	10%	16V	
C3505	1-107-823-11	CERAMIC CHIP 0.47μF	10%	16V	
<CONNECTOR>					
CN3501*	1-564-522-11	PLUG, CONNECTOR 7P			
<DIODE>					
D3501	8-719-016-74	DIODE 1SS352-TPH3			
D3502	8-719-016-74	DIODE 1SS352-TPH3			
D3503	8-719-158-15	DIODE UDZ-TE-17-5.6B			
D3504	8-719-158-15	DIODE UDZ-TE-17-5.6B			
D3505	8-719-977-28	DIODE UDZ-TE-17-10B			
D3506	8-719-977-28	DIODE UDZ-TE-17-10B			
D3507	8-719-977-28	DIODE UDZ-TE-17-10B			
D3508	8-719-977-28	DIODE UDZ-TE-17-10B			
<JACK>					
J3501	1-764-143-11	JACK (CONTROL S IN)			
J3502	1-764-143-11	JACK (CONTROL S OUT)			
J3503	1-793-795-11	JACK BLOCK, PIN 2P (VIDEO 5 (DTV)			HD/VD)
<TRANSISTOR>					
Q3501	8-729-027-38	TRANSISTOR DTA144EKA-T146			
Q3502	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q3503	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX			
Q3504	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX			
Q3505	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX			
Q3506	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q3507	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX			
<RESISTOR>					
R3501	1-216-089-11	RES-CHIP 47K	5%	1/10W	
R3502	1-216-057-00	RES-CHIP 2.2K	5%	1/10W	
R3503	1-216-009-91	RES-CHIP 22	5%	1/10W	
R3504	1-216-073-00	RES-CHIP 10K	5%	1/10W	
R3506	1-216-009-91	RES-CHIP 22	5%	1/10W	
R3507	1-216-097-11	RES-CHIP 100K	5%	1/10W	
R3508	1-216-097-11	RES-CHIP 100K	5%	1/10W	
R3510	1-216-073-00	RES-CHIP 10K	5%	1/10W	
R3511	1-216-295-11	SHORT 0			
R3512	1-216-073-00	RES-CHIP 10K	5%	1/10W	
R3513	1-216-097-11	RES-CHIP 100K	5%	1/10W	
R3514	1-216-097-11	RES-CHIP 100K	5%	1/10W	
R3515	1-216-057-00	RES-CHIP 2.2K	5%	1/10W	
R3516	1-216-025-11	RES-CHIP 100	5%	1/10W	
R3517	1-216-057-00	RES-CHIP 2.2K	5%	1/10W	
R3518	1-216-025-11	RES-CHIP 100	5%	1/10W	

REF. NO.	PART NO.	DESCRIPTION	REMARK		
* A-1316-552-A G BOARD, COMPLETE					

	1-533-223-11	CLIP, FUSE			
	* 4-374-846-01	COVER, CAPACITOR, CAP TYPE			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
<CAPACITOR>					
C6001 △	1-104-708-11	MYLAR	0.47μF	20%	250V
C6002 △	1-104-706-11	MYLAR	0.22μF	20%	250V
C6003 △	1-119-912-51	CERAMIC	1000pF	20%	250V
C6004	1-119-912-51	CERAMIC	1000pF	20%	250V
C6006	1-161-964-91	CERAMIC	0.0047μF	250V	
C6007	1-161-964-91	CERAMIC	0.0047μF	250V	
C6008 △	1-104-350-11	ELECT(BLOCK)	1000μF	20%	250V
C6009	1-107-670-11	ELECT	10μF	20%	400V
C6010 △	1-104-350-11	ELECT(BLOCK)	1000μF	20%	250V
C6012	1-126-968-11	ELECT	100μF	20%	50V
C6013	1-126-964-11	ELECT	10μF	20%	50V
C6014	1-104-664-11	ELECT	47μF	20%	25V
C6015	1-137-605-11	MYLAR	0.01μF	10%	250V
C6016	1-126-961-11	ELECT	2.2μF	20%	50V
C6017	1-126-968-11	ELECT	100μF	20%	50V
C6018	1-102-112-00	CERAMIC	330pF	10%	50V
C6019	1-102-112-00	CERAMIC	330pF	10%	50V
C6020	1-136-165-00	FILM	0.1μF	5%	50V
C6021	1-126-960-11	ELECT	1μF	20%	50V
C6022	1-137-219-11	FILM	0.015μF	5%	0V
C6023	1-115-405-11	FILM	0.039μF	3%	1KV
C6024	1-107-668-11	ELECT	3.3μF	20%	400V
C6025	1-125-969-91	CERAMIC	680pF	10%	1KV
C6026	1-125-969-91	CERAMIC	680pF	10%	1KV
C6027	1-126-964-11	ELECT	10μF	20%	50V
C6028	1-136-479-11	FILM	0.001μF	2%	50V
C6029	1-102-112-00	CERAMIC	330pF	10%	50V
C6030	1-102-112-00	CERAMIC	330pF	10%	50V
C6031	1-126-960-11	ELECT	1μF	20%	50V
C6032	1-136-165-00	FILM	0.1μF	5%	50V
C6033	1-125-969-91	CERAMIC	680pF	10%	1KV
C6034	1-125-969-91	CERAMIC	680pF	10%	1KV
C6035	1-126-964-11	ELECT	10μF	20%	50V
C6036	1-136-165-00	FILM	0.1μF	5%	50V
C6037	1-126-964-11	ELECT	10μF	20%	50V
C6038	1-119-912-51	CERAMIC	1000pF	20%	250V
C6102	1-104-665-11	ELECT	100μF	20%	25V
C6103	1-104-664-11	ELECT	47μF	20%	25V
C6104	1-101-810-00	CERAMIC	100pF	5%	500V
C6105	1-101-810-00	CERAMIC	100pF	5%	500V
C6106	1-101-810-00	CERAMIC	100pF	5%	500V
C6107	1-101-810-00	CERAMIC	100pF	5%	500V
C6108	1-104-664-11	ELECT	47μF	20%	25V
C6109	1-101-810-00	CERAMIC	100pF	5%	500V
C6110	1-101-810-00	CERAMIC	100pF	5%	500V
C6111	1-101-810-00	CERAMIC	100pF	5%	500V
C6112	1-101-810-00	CERAMIC	100pF	5%	500V
C6113	1-107-639-11	ELECT	47μF	20%	160V
C6114	1-107-641-11	ELECT	220μF	20%	160V



Les composants identifiés par une trame et une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark $\triangle$ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C6115	1-104-665-11	ELECT	100μF 20% 25V	D6004	8-719-110-31	DIODE MTZJ-T-77-12B	
C6116	1-126-968-11	ELECT	100μF 20% 50V	D6005	8-719-979-64	DIODE μF4005PKG23	
C6117	1-128-546-11	ELECT	10000μF 20% 10V	D6006	8-719-059-23	DIODE P6KE200AG23	
C6118	1-126-943-11	ELECT	2200μF 20% 25V	D6007	8-719-991-33	DIODE 1SS133T-77	
C6119	1-126-943-11	ELECT	2200μF 20% 25V	D6009	8-719-982-26	DIODE MTZJ-T-77-33B	
C6120	1-128-549-11	ELECT	3300μF 20% 35V	D6010	8-719-991-33	DIODE 1SS133T-77	
C6121	1-128-549-11	ELECT	3300μF 20% 35V	D6011	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C6122	1-126-943-11	ELECT	2200μF 20% 25V	D6012	8-719-991-33	DIODE 1SS133T-77	
C6123	1-107-641-11	ELECT	220μF 20% 160V	D6013	8-719-991-33	DIODE 1SS133T-77	
C6124	1-128-549-11	ELECT	3300μF 20% 35V	D6014	8-719-991-33	DIODE 1SS133T-77	
C6125	1-128-549-11	ELECT	3300μF 20% 35V	D6015	8-719-063-73	DIODE D1NL20U-TR	
C6126	1-104-665-11	ELECT	100μF 20% 25V	D6016	8-719-979-64	DIODE μF4005PKG23	
C6127	1-107-639-11	ELECT	47μF 20% 160V	D6017	8-719-110-53	DIODE MTZJ-T-77-20C	
C6128	1-128-549-11	ELECT	3300μF 20% 35V	D6018	8-719-979-64	DIODE μF4005PKG23	
C6129	1-128-549-11	ELECT	3300μF 20% 35V	D6019	8-719-110-53	DIODE MTZJ-T-77-20C	
C6131	1-104-665-11	ELECT	100μF 20% 25V	D6020	8-719-210-53	DIODE 11ES4-TA1B	
C6132	1-104-665-11	ELECT	100μF 20% 25V	D6021	8-719-110-53	DIODE MTZJ-T-77-20C	
C6133	1-104-665-11	ELECT	100μF 20% 25V	D6022	8-719-110-53	DIODE MTZJ-T-77-20C	
C6134	1-126-968-11	ELECT	100μF 20% 50V	D6023	8-719-991-33	DIODE 1SS133T-77	
C6135	1-126-968-11	ELECT	100μF 20% 50V	D6024	8-719-991-33	DIODE 1SS133T-77	
C6136	1-102-228-00	CERAMIC	470pF 10% 500V	D6025	8-719-979-64	DIODE μF4005PKG23	
C6137	1-126-941-11	ELECT	470μF 20% 25V	D6026	8-719-110-53	DIODE MTZJ-T-77-20C	
C6140	1-104-666-11	ELECT	220μF 20% 25V	D6027	8-719-979-64	DIODE μF4005PKG23	
C6141	1-101-810-00	CERAMIC	100pF 5% 500V	D6028	8-719-110-53	DIODE MTZJ-T-77-20C	
C6142	1-101-810-00	CERAMIC	100pF 5% 500V	D6029	8-719-110-53	DIODE MTZJ-T-77-20C	
C6143	1-101-810-00	CERAMIC	100pF 5% 500V	D6030	8-719-110-53	DIODE MTZJ-T-77-20C	
C6144	1-101-810-00	CERAMIC	100pF 5% 500V	D6031	8-719-210-53	DIODE 11ES4-TA1B	
C6145	1-126-918-11	ELECT	4700μF 20% 6.3V	D6032	8-719-979-64	DIODE μF4005PKG23	
C6150	1-136-165-00	FILM	0.1μF 5% 50V	D6033	8-719-991-33	DIODE 1SS133T-77	
C6151	1-101-810-00	CERAMIC	100pF 5% 500V	D6034	8-719-991-33	DIODE 1SS133T-77	
C6152	1-101-810-00	CERAMIC	100pF 5% 500V	D6035	8-719-110-31	DIODE MTZJ-T-77-12B	
C6153	1-101-810-00	CERAMIC	100pF 5% 500V	D6101	8-719-210-53	DIODE 11ES4-TA1B	
C6154	1-101-810-00	CERAMIC	100pF 5% 500V	D6102	8-719-057-96	DIODE D10SC6M-4012	
C6155	1-102-129-00	CERAMIC	0.01μF 10% 50V	D6103	8-719-052-90	DIODE D1NL40-TR2	
C6156	1-102-050-00	CERAMIC	0.01μF 99% 500V	D6104	8-719-031-78	DIODE S2L40F	
C6157	1-102-129-00	CERAMIC	0.01μF 10% 50V	D6105	8-719-052-91	DIODE D4SBS4-F	
C6158	1-102-129-00	CERAMIC	0.01μF 10% 50V	D6106	8-719-052-90	DIODE D1NL40-TR2	
C6159	1-102-129-00	CERAMIC	0.01μF 10% 50V	D6107	8-719-031-78	DIODE S2L40F	
C6160	1-102-129-00	CERAMIC	0.01μF 10% 50V	D6108	8-719-057-96	DIODE D10SC6M-4012	
<CONNECTOR>				D6109	8-719-049-92	DIODE SF10SC3L	
CN6004*	1-580-843-11	PIN, CONNECTOR (POWER)		D6110	8-719-982-27	DIODE MTZJ-T-77-33C	
CN6101*	1-564-510-11	PLUG, CONNECTOR 7P		D6112	8-719-991-33	DIODE 1SS133T-77	
CN6102*	1-691-757-11	PIN, CONNECTOR (PC BOARD) 8P		D6113	8-719-991-33	DIODE 1SS133T-77	
CN6103	1-695-915-11	TAB (CONTACT)		D6114	8-719-072-30	DIODE D25SC6MRF04	
CN6104*	1-564-512-11	PLUG, CONNECTOR 9P		D6116	8-719-072-29	DIODE D25SC6μF04	
CN6105*	1-564-509-11	PLUG, CONNECTOR 6P		D6117	8-719-988-31	DIODE D10SC6MR	
CN6106*	1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P		D6119	8-719-110-31	DIODE MTZJ-T-77-12B	
CN6107	1-695-915-11	TAB (CONTACT)		D6120	8-719-063-73	DIODE D1NL20U-TR	
CN6108	1-695-915-11	TAB (CONTACT)		D6121	8-719-921-63	DIODE MTZJ-T-77-7.5B	
<DIODE>				D6122	8-719-991-33	DIODE 1SS133T-77	
D6001	8-719-068-00	DIODE ERC04-06SE		D6123	8-719-991-33	DIODE 1SS133T-77	
D6002 $\triangle$	8-719-033-58	DIODE RBV-1506		D6124	8-719-991-33	DIODE 1SS133T-77	
D6003	8-719-068-00	DIODE ERC04-06SE		D6125	8-719-991-33	DIODE 1SS133T-77	
				D6127	8-719-983-14	DIODE MTZJ-T-77-3.9	



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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<FUSE>				<TRANSISTOR>			
F6001 Δ	1-576-048-11	FUSE, GLASS TUBE 10A/125V		Q6001	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
F6002 Δ	1-533-759-11	FUSE, 6.3A/125V		Q6002	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
F6105 Δ	1-576-278-21	FUSE, MULTIPLE 5A		Q6003	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
F6106 Δ	1-576-278-21	FUSE, MULTIPLE 5A		Q6004	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
				Q6005	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
<FERRITEBEAD>				Q6006	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
FB6001	1-410-397-21	FERRITE 1.1 μ H		Q6007	8-729-044-42	TRANSISTOR IRFI644G-LF36	
FB6002	1-410-397-21	FERRITE 1.1 μ H		Q6008	8-729-044-42	TRANSISTOR IRFI644G-LF36	
FB6003	1-410-397-21	FERRITE 1.1 μ H		Q6009	8-729-044-42	TRANSISTOR IRFI644G-LF36	
FB6004	1-410-397-21	FERRITE 1.1 μ H		Q6010	8-729-044-42	TRANSISTOR IRFI644G-LF36	
FB6013	1-410-396-41	FERRITE 0.45 μ H		Q6011	8-729-140-97	TRANSISTOR 2SB734-T-2	
FB6014	1-410-396-41	FERRITE 0.45 μ H		Q6012	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
FB6015	1-410-396-41	FERRITE 0.45 μ H		Q6013	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
FB6016	1-410-396-41	FERRITE 0.45 μ H		Q6101	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
FB6017	1-410-396-41	FERRITE 0.45 μ H		Q6102	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
FB6018	1-410-396-41	FERRITE 0.45 μ H		Q6103	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
FB6101	1-410-397-21	FERRITE 1.1 μ H		Q6104	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
FB6102	1-410-397-21	FERRITE 1.1 μ H		Q6106	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
<IC>				<RESISTOR>			
IC6001	8-759-468-89	IC TOP209P		R6001 Δ	1-219-776-11	CARBON 2.2M 10% 1/2W	
IC6002	8-759-185-47	IC IR2112		R6002	1-219-759-11	CARBON 1M 5% 1/2W	
IC6003	8-759-077-25	IC IR3M02		R6004	1-260-131-11	CARBON 470K 5% 1/2W	
IC6004	8-759-185-47	IC IR2112		R6005	1-249-401-11	CARBON 47 5% 1/4W	
IC6005 Δ	8-749-010-64	PHOTO COUPLER PC123FY2		R6006 Δ	1-260-127-11	CARBON 220K 5% 1/2W	
IC6011 Δ	8-749-010-64	PHOTO COUPLER PC123FY2		R6007	1-249-437-11	CARBON 47K 5% 1/4W	
IC6101	8-749-920-61	IC SE135N-LF12		R6008	1-260-127-11	CARBON 220K 5% 1/2W	
IC6102	8-759-103-93	IC μ PC393C		R6010	1-205-997-11	CEMENTED 2.2 5% 10W	
IC6103	8-759-198-31	IC μ PC1093J-1-T		R6011	1-249-437-11	CARBON 47K 5% 1/4W	
IC6104	8-759-450-47	IC BA05T		R6012	1-212-849-00	FUSIBLE 4.7 5% 1/4W	
IC6301	8-759-198-31	IC μ PC1093J-1-T		R6013	1-247-895-91	CARBON 470K 5% 1/4W	
<COIL>				R6014	1-249-437-11	CARBON 47K 5% 1/4W	
L6001 Δ	1-431-116-11	TRANSFORMER, LINE FILTER		R6015	1-249-437-11	CARBON 47K 5% 1/4W	
L6002 Δ	1-431-116-11	TRANSFORMER, LINE FILTER		R6016	1-249-437-11	CARBON 47K 5% 1/4W	
L6103	1-412-523-41	INDUCTOR 6.8 μ H		R6017	1-249-417-11	CARBON 1K 5% 1/4W	
L6104	1-412-523-41	INDUCTOR 6.8 μ H		R6018	1-249-433-11	CARBON 22K 5% 1/4W	
L6105	1-412-525-31	INDUCTOR 10 μ H		R6019	1-249-429-11	CARBON 10K 5% 1/4W	
L6106	1-412-525-31	INDUCTOR 10 μ H		R6020	1-249-425-11	CARBON 4.7K 5% 1/4W	
L6107	1-406-659-11	INDUCTOR 10 μ H		R6021	1-247-791-91	CARBON 22 5% 1/4W	
L6108	1-412-525-31	INDUCTOR 10 μ H		R6022	1-249-437-11	CARBON 47K 5% 1/4W	
L6109	1-412-525-31	INDUCTOR 10 μ H		R6023	1-247-895-91	CARBON 470K 5% 1/4W	
L6110	1-412-525-31	INDUCTOR 10 μ H		R6024	1-249-397-11	CARBON 22 5% 1/4W	
L6111	1-412-525-31	INDUCTOR 10 μ H		R6025	1-249-397-11	CARBON 22 5% 1/4W	
L6112	1-412-525-31	INDUCTOR 10 μ H		R6026	1-249-425-11	CARBON 4.7K 5% 1/4W	
<IC LINK>				R6027	1-249-425-11	CARBON 4.7K 5% 1/4W	
PS6101 Δ	1-533-597-31	LINK, IC		R6028	1-215-427-00	METAL 1.8K 1% 1/4W	
PS6102 Δ	1-533-597-31	LINK, IC		R6029	1-249-433-11	CARBON 22K 5% 1/4W	
PS6103 Δ	1-533-790-31	LINK, IC		R6030	1-249-437-11	CARBON 47K 5% 1/4W	
PS6104 Δ	1-533-790-31	LINK, IC		R6031	1-249-425-11	CARBON 4.7K 5% 1/4W	
				R6032	1-249-417-11	CARBON 1K 5% 1/4W	
				R6033	1-215-444-00	METAL 9.1K 1% 1/4W	
				R6034	1-249-417-11	CARBON 1K 5% 1/4W	
				R6035	1-249-397-11	CARBON 22 5% 1/4W	
				R6036	1-249-397-11	CARBON 22 5% 1/4W	
				R6037	1-249-425-11	CARBON 4.7K 5% 1/4W	

KP-57XBR10W/65XBR10W

RM-Y907

RM-Y907



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REF. NO.	PART NO.	DESCRIPTION	REMARK
R6038	1-249-425-11	CARBON	4.7K 5% 1/4W
R6039	1-249-429-11	CARBON	10K 5% 1/4W
R6040	1-249-429-11	CARBON	10K 5% 1/4W
R6041	1-249-429-11	CARBON	10K 5% 1/4W
R6042	1-249-437-11	CARBON	47K 5% 1/4W
R6043	1-260-134-11	CARBON	820K 5% 1/2W
R6101 Δ	1-215-437-00	METAL	4.7K 1% 1/4W
R6102	1-215-479-00	METAL	270K 1% 1/4W
R6103	1-215-437-00	METAL	4.7K 1% 1/4W
R6104	1-215-413-00	METAL	470 1% 1/4W
R6105	1-249-417-11	CARBON	1K 5% 1/4W
R6106	1-249-417-11	CARBON	1K 5% 1/4W
R6108	1-249-425-11	CARBON	4.7K 5% 1/4W
R6109	1-249-425-11	CARBON	4.7K 5% 1/4W
R6110	1-249-417-11	CARBON	1K 5% 1/4W
R6111	1-215-900-11	METAL OXIDE	22K 5% 2W
R6112	1-249-417-11	CARBON	1K 5% 1/4W
R6113	1-249-429-11	CARBON	10K 5% 1/4W
R6115	1-249-413-11	CARBON	470 5% 1/4W
R6118	1-216-361-00	METAL OXIDE	0.22 5% 2W
R6119	1-249-429-11	CARBON	10K 5% 1/4W
R6120	1-249-429-11	CARBON	10K 5% 1/4W
R6121	1-249-429-11	CARBON	10K 5% 1/4W
R6122	1-249-377-11	CARBON	0.47 5% 1/4W
R6123	1-249-377-11	CARBON	0.47 5% 1/4W
R6124	1-249-377-11	CARBON	0.47 5% 1/4W
R6125	1-249-425-11	CARBON	4.7K 5% 1/4W
R6126	1-249-417-11	CARBON	1K 5% 1/4W
R6128	1-249-417-11	CARBON	1K 5% 1/4W
R6129	1-249-421-11	CARBON	2.2K 5% 1/4W
R6130	1-249-425-11	CARBON	4.7K 5% 1/4W
R6132	1-249-417-11	CARBON	1K 5% 1/4W
R6133	1-249-425-11	CARBON	4.7K 5% 1/4W
R6134	1-249-417-11	CARBON	1K 5% 1/4W
R6135	1-249-425-11	CARBON	4.7K 5% 1/4W
R6136	1-249-425-11	CARBON	4.7K 5% 1/4W
R6141	1-249-401-11	CARBON	47 5% 1/4W
R6142	1-249-425-11	CARBON	4.7K 5% 1/4W
R6143	1-249-425-11	CARBON	4.7K 5% 1/4W
R6301	1-215-454-00	METAL	24K 1% 1/4W
R6302	1-215-431-00	METAL	2.7K 1% 1/4W
R6303	1-249-417-11	CARBON	1K 5% 1/4W
<RELAY>			
RY6001 Δ 1-515-999-11 RELAY, POWER			
RY6002 Δ 1-515-999-11 RELAY, POWER			
<TRANSFORMER>			
T6001 Δ 1-429-807-11 TRANSFORMER, CONVERTER (PIT)			
T6002 Δ 1-431-897-11 TRANSFORMER, CONVERTER (PIT)			
T6003 Δ 1-431-732-11 TRANSFORMER, CONVERTER (SRT)			

REF. NO.	PART NO.	DESCRIPTION	REMARK
<VARISTOR>			
VD6001	1-801-073-31	VARISTOR TNR14V471K660	
VD6002	1-801-073-31	VARISTOR TNR14V471K660	

* A-1380-643-A K BOARD, COMPLETE			

4-382-854-11 SCREW (M3X10), P, SW (+)			
<CAPACITOR>			
C2103	1-104-664-11	ELECT	47 μ F 20% 25V
C2104	1-104-664-11	ELECT	47 μ F 20% 25V
C2105	1-104-664-11	ELECT	47 μ F 20% 25V
C2106	1-104-664-11	ELECT	47 μ F 20% 25V
C2107	1-104-664-11	ELECT	47 μ F 20% 25V
C2108	1-104-664-11	ELECT	47 μ F 20% 25V
C2111	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V
C2112	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V
C2113	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V
C2114	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V
C2115	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V
C2116	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V
C2117	1-104-664-11	ELECT	47 μ F 20% 25V
C2118	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C2121	1-126-965-11	ELECT	22 μ F 20% 50V
C2122	1-136-177-00	FILM	1 μ F 5% 50V
C2123	1-137-150-11	MYLAR	0.01 μ F 5% 50V
C2124	1-137-365-11	MYLAR	0.0015 μ F 5% 50V
C2125	1-137-375-11	MYLAR	0.068 μ F 5% 50V
C2126	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C2127	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C2128	1-137-375-11	MYLAR	0.068 μ F 5% 50V
C2129	1-137-150-11	MYLAR	0.01 μ F 5% 50V
C2130	1-137-434-11	MYLAR	0.0018 μ F 5% 50V
C2131	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C2132	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C2133	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C2134	1-137-365-11	MYLAR	0.0015 μ F 5% 50V
C2135	1-136-356-11	MYLAR	470pF 5% 50V
C2136	1-136-357-11	MYLAR	680pF 5% 50V
C2137	1-137-437-11	MYLAR	0.0056 μ F 5% 50V
C2138	1-137-374-11	MYLAR	0.047 μ F 5% 50V
C2139	1-136-175-00	FILM	0.68 μ F 5% 50V
C2140	1-137-378-11	MYLAR	0.22 μ F 5% 50V
C2141	1-137-378-11	MYLAR	0.22 μ F 5% 50V
C2142	1-126-963-11	ELECT	4.7 μ F 20% 50V
C2143	1-126-963-11	ELECT	4.7 μ F 20% 50V
C2144	1-137-378-11	MYLAR	0.22 μ F 5% 50V
C2145	1-137-378-11	MYLAR	0.22 μ F 5% 50V
C2146	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C2147	1-137-374-11	MYLAR	0.047 μ F 5% 50V
C2148	1-137-374-11	MYLAR	0.047 μ F 5% 50V
C2149	1-130-495-00	MYLAR	0.1 μ F 5% 50V



REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
C2150	1-130-495-00	MYLAR	0.1μF	5%	50V	C2601	1-126-960-11	ELECT	1μF	20%	50V
C2151	1-137-372-11	MYLAR	0.022μF	5%	50V	C2602	1-126-964-11	ELECT	10μF	20%	50V
C2152	1-137-372-11	MYLAR	0.022μF	5%	50V	C2605	1-126-964-11	ELECT	10μF	20%	50V
C2153	1-130-495-00	MYLAR	0.1μF	5%	50V	C2606	1-126-963-11	ELECT	4.7μF	20%	50V
C2154	1-136-357-11	MYLAR	680pF	5%	50V	C2607	1-130-495-00	MYLAR	0.1μF	5%	50V
C2155	1-130-495-00	MYLAR	0.1μF	5%	50V	C2608	1-126-960-11	ELECT	1μF	20%	50V
C2156	1-130-495-00	MYLAR	0.1μF	5%	50V	C2609	1-130-495-00	MYLAR	0.1μF	5%	50V
C2157	1-126-965-11	ELECT	22μF	20%	50V	C2610	1-130-495-00	MYLAR	0.1μF	5%	50V
C2158	1-126-964-11	ELECT	10μF	20%	50V	C2611	1-130-495-00	MYLAR	0.1μF	5%	50V
C2159	1-137-437-11	MYLAR	0.0056μF	5%	50V	C2612	1-126-960-11	ELECT	1μF	20%	50V
C2160	1-128-549-11	ELECT	3300μF	20%	35V	C2613	1-126-963-11	ELECT	4.7μF	20%	50V
C2161	1-128-549-11	ELECT	3300μF	20%	35V	C2614	1-126-960-11	ELECT	1μF	20%	50V
C2162	1-130-495-00	MYLAR	0.1μF	5%	50V	C2615	1-126-964-11	ELECT	10μF	20%	50V
C2163	1-130-495-00	MYLAR	0.1μF	5%	50V	C2617	1-130-495-00	MYLAR	0.1μF	5%	50V
C2164	1-107-698-11	ELECT	10μF	20%	25V	C2618	1-130-495-00	MYLAR	0.1μF	5%	50V
C2165	1-107-698-11	ELECT	10μF	20%	25V	C2619	1-130-495-00	MYLAR	0.1μF	5%	50V
C2166	1-126-965-11	ELECT	22μF	20%	50V	C2620	1-126-963-11	ELECT	4.7μF	20%	50V
C2167	1-126-935-11	ELECT	470μF	20%	16V	C2621	1-126-960-11	ELECT	1μF	20%	50V
C2168	1-126-933-11	ELECT	100μF	20%	16V	C2622	1-130-495-00	MYLAR	0.1μF	5%	50V
C2169	1-136-357-11	MYLAR	680pF	5%	50V	C2623	1-126-964-11	ELECT	10μF	20%	50V
C2170	1-130-495-00	MYLAR	0.1μF	5%	50V	C2624	1-126-964-11	ELECT	10μF	20%	50V
C2171	1-130-495-00	MYLAR	0.1μF	5%	50V	C2625	1-104-664-11	ELECT	47μF	20%	25V
C2172	1-104-664-11	ELECT	47μF	20%	25V	C2626	1-104-664-11	ELECT	47μF	20%	25V
C2173	1-104-664-11	ELECT	47μF	20%	25V	C2627	1-130-495-00	MYLAR	0.1μF	5%	50V
C2174	1-126-933-11	ELECT	100μF	20%	16V	C2628	1-130-495-00	MYLAR	0.1μF	5%	50V
C2176	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C2631	1-104-665-11	ELECT	100μF	20%	25V
C2177	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C2632	1-104-665-11	ELECT	100μF	20%	25V
C2178	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C2633	1-107-718-91	ELECT	100μF	20%	50V
C2301	1-126-960-11	ELECT	1μF	20%	50V	C2801	1-126-960-11	ELECT	1μF	20%	50V
C2302	1-126-960-11	ELECT	1μF	20%	50V	C2802	1-126-960-11	ELECT	1μF	20%	50V
C2303	1-126-965-11	ELECT	22μF	20%	50V	C2803	1-126-964-11	ELECT	10μF	20%	50V
C2304	1-163-014-00	CERAMIC CHIP	0.0027μF	5%	50V	C2804	1-126-964-11	ELECT	10μF	20%	50V
C2305	1-163-014-00	CERAMIC CHIP	0.0027μF	5%	50V	<CONNECTOR>					
C2306	1-126-961-11	ELECT	2.2μF	20%	50V	CN2101*	1-691-757-11	PIN, CONNECTOR (PC BOARD) 8P			
C2307	1-137-378-11	MYLAR	0.22μF	5%	50V	CN2102*	1-564-510-11	PLUG, CONNECTOR 7P			
C2308	1-130-495-00	MYLAR	0.1μF	5%	50V	CN2103*	1-764-333-11	PLUG, CONNECTOR 10P			
C2309	1-130-495-00	MYLAR	0.1μF	5%	50V	CN2601*	1-564-507-11	PLUG, CONNECTOR 4P			
C2310	1-137-378-11	MYLAR	0.22μF	5%	50V	CN2602*	1-691-135-11	PIN, CONNECTOR (PC BOARD) 4P			
C2311	1-126-961-11	ELECT	2.2μF	20%	50V	CN2603*	1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P			
C2312	1-126-965-11	ELECT	22μF	20%	50V	<DIODE>					
C2313	1-163-014-00	CERAMIC CHIP	0.0027μF	5%	50V	D2101	8-719-016-74	DIODE	1SS352-TPH3		
C2314	1-163-014-00	CERAMIC CHIP	0.0027μF	5%	50V	D2102	8-719-016-74	DIODE	1SS352-TPH3		
C2315	1-126-961-11	ELECT	2.2μF	20%	50V	D2103	8-719-016-74	DIODE	1SS352-TPH3		
C2316	1-130-495-00	MYLAR	0.1μF	5%	50V	D2104	8-719-016-74	DIODE	1SS352-TPH3		
C2317	1-130-495-00	MYLAR	0.1μF	5%	50V	D2105	8-719-016-74	DIODE	1SS352-TPH3		
C2318	1-130-495-00	MYLAR	0.1μF	5%	50V	D2106	8-719-016-74	DIODE	1SS352-TPH3		
C2319	1-130-495-00	MYLAR	0.1μF	5%	50V	D2107	8-719-016-74	DIODE	1SS352-TPH3		
C2320	1-126-961-11	ELECT	2.2μF	20%	50V	D2108	8-719-016-74	DIODE	1SS352-TPH3		
C2321	1-107-698-11	ELECT	10μF	20%	25V	D2109	8-719-016-74	DIODE	1SS352-TPH3		
C2322	1-107-698-11	ELECT	10μF	20%	25V	D2110	8-719-016-74	DIODE	1SS352-TPH3		
C2323	1-107-698-11	ELECT	10μF	20%	25V	D2111	8-719-016-74	DIODE	1SS352-TPH3		
C2324	1-107-698-11	ELECT	10μF	20%	25V	D2112	8-719-016-74	DIODE	1SS352-TPH3		
C2325	1-126-964-11	ELECT	10μF	20%	50V						
C2326	1-126-964-11	ELECT	10μF	20%	50V						
C2327	1-104-664-11	ELECT	47μF	20%	25V						
C2328	1-104-664-11	ELECT	47μF	20%	25V						
C2329	1-104-664-11	ELECT	47μF	20%	25V						



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D2113	8-719-977-28	DIODE	UDZ-TE-17-10B	<TRANSISTOR>			
D2114	8-719-977-28	DIODE	UDZ-TE-17-10B	Q2101	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2115	8-719-977-28	DIODE	UDZ-TE-17-10B	Q2102	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2116	8-719-016-74	DIODE	1SS352-TPH3	Q2103	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
D2301	8-719-977-28	DIODE	UDZ-TE-17-10B	Q2104	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
D2302	8-719-977-28	DIODE	UDZ-TE-17-10B	Q2105	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2303	8-719-977-28	DIODE	UDZ-TE-17-10B	Q2601	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2304	8-719-977-28	DIODE	UDZ-TE-17-10B	Q2602	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2601	8-719-016-74	DIODE	1SS352-TPH3	Q2603	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
D2602	8-719-402-92	DIODE	MA3220M-TX	Q2604	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2603	8-719-402-92	DIODE	MA3220M-TX	Q2605	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2604	8-719-402-92	DIODE	MA3220M-TX	Q2606	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2605	8-719-402-92	DIODE	MA3220M-TX	Q2607	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2606	8-719-402-92	DIODE	MA3220M-TX	Q2608	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2607	8-719-402-92	DIODE	MA3220M-TX	Q2609	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2608	8-719-402-92	DIODE	MA3220M-TX	Q2610	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX
D2609	8-719-402-92	DIODE	MA3220M-TX	Q2801	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2610	8-719-402-92	DIODE	MA3220M-TX	Q2802	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2611	8-719-016-74	DIODE	1SS352-TPH3	Q2803	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2612	8-719-016-74	DIODE	1SS352-TPH3	Q2804	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2613	8-719-016-74	DIODE	1SS352-TPH3	Q2805	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2614	8-719-402-92	DIODE	MA3220M-TX	Q2806	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX
D2615	8-719-402-92	DIODE	MA3220M-TX	<RESISTOR>			
D2616	8-719-402-92	DIODE	MA3220M-TX	R2104	1-216-477-11	METAL OXIDE	270 5% 3W
D2617	8-719-402-92	DIODE	MA3220M-TX	R2105	1-215-912-11	METAL OXIDE	150 5% 3W
D2618	8-719-016-74	DIODE	1SS352-TPH3	R2106	1-216-295-11	SHORT	0
D2620	8-719-402-92	DIODE	MA3220M-TX	R2107	1-215-912-11	METAL OXIDE	150 5% 3W
D2621	8-719-977-28	DIODE	UDZ-TE-17-10B	R2109	1-216-073-00	RES-CHIP	10K 5% 1/10W
D2622	8-719-977-28	DIODE	UDZ-TE-17-10B	R2110	1-216-081-00	RES-CHIP	22K 5% 1/10W
D2623	8-719-977-28	DIODE	UDZ-TE-17-10B	R2111	1-216-025-11	RES-CHIP	100 5% 1/10W
D2624	8-719-977-28	DIODE	UDZ-TE-17-10B	R2112	1-216-025-11	RES-CHIP	100 5% 1/10W
D2801	8-719-400-75	DIODE	MA3091-TX	R2113	1-216-025-11	RES-CHIP	100 5% 1/10W
D2802	8-719-400-75	DIODE	MA3091-TX	R2114	1-216-121-11	RES-CHIP	1M 5% 1/10W
D2803	8-719-400-75	DIODE	MA3091-TX	R2115	1-216-089-11	RES-CHIP	47K 5% 1/10W
D2804	8-719-400-75	DIODE	MA3091-TX	R2116	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
D2805	8-719-400-75	DIODE	MA3091-TX	R2117	1-216-089-11	RES-CHIP	47K 5% 1/10W
D2806	8-719-400-75	DIODE	MA3091-TX	R2118	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
D2807	8-719-400-75	DIODE	MA3091-TX	R2119	1-216-081-00	RES-CHIP	22K 5% 1/10W
D2808	8-719-400-75	DIODE	MA3091-TX	R2120	1-216-081-00	RES-CHIP	22K 5% 1/10W
<IC>				R2121	1-216-109-00	RES-CHIP	330K 5% 1/10W
IC2102	8-759-231-53	IC	MC7805CT	R2122	1-216-089-11	RES-CHIP	47K 5% 1/10W
IC2103	8-759-198-03	IC	PQ09RF21	R2123	1-216-077-91	RES-CHIP	15K 5% 1/10W
IC2104	8-759-231-58	IC	MC7812CT	R2124	1-216-077-91	RES-CHIP	15K 5% 1/10W
IC2105	8-759-544-37	IC	NJW1103FC3	R2125	1-216-081-00	RES-CHIP	22K 5% 1/10W
IC2301	8-759-634-51	IC	NJM4558D	R2126	1-216-081-00	RES-CHIP	22K 5% 1/10W
IC2302	8-759-544-72	IC	TDA7312	R2127	1-216-129-00	RES-CHIP	2.2M 5% 1/10W
IC2303	8-759-544-72	IC	TDA7312	R2128	1-216-097-11	RES-CHIP	100K 5% 1/10W
IC2601	8-759-190-89	IC	TDA7265	R2129	1-216-105-91	RES-CHIP	220K 5% 1/10W
IC2602	8-759-072-99	IC	TDA2052	R2133	1-216-025-11	RES-CHIP	100 5% 1/10W
IC2603	8-759-190-89	IC	TDA7265	R2134	1-216-025-11	RES-CHIP	100 5% 1/10W
<JACK>				R2135	1-216-025-11	RES-CHIP	100 5% 1/10W
J2601	1-785-083-11	JACK BLOCK, PIN 2P		R2136	1-216-025-11	RES-CHIP	100 5% 1/10W
J2602	1-785-083-21	JACK BLOCK, PIN 2P		R2137	1-216-049-11	RES-CHIP	1K 5% 1/10W
				R2138	1-216-049-11	RES-CHIP	1K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R2139	1-216-081-00	RES-CHIP	22K 5% 1/10W	R2630	1-216-049-11	RES-CHIP	1K 5% 1/10W
R2140	1-216-081-00	RES-CHIP	22K 5% 1/10W	R2631	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2141	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R2632	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2142	1-216-073-00	RES-CHIP	10K 5% 1/10W	R2633	1-216-097-11	RES-CHIP	100K 5% 1/10W
R2143	1-216-025-11	RES-CHIP	100 5% 1/10W	R2634	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2144	1-216-077-91	RES-CHIP	15K 5% 1/10W	R2635	1-216-077-91	RES-CHIP	15K 5% 1/10W
R2145	1-216-089-11	RES-CHIP	47K 5% 1/10W	R2636	1-216-085-00	RES-CHIP	33K 5% 1/10W
R2146	1-216-077-91	RES-CHIP	15K 5% 1/10W	R2637	1-216-041-00	RES-CHIP	470 5% 1/10W
R2147	1-216-129-00	RES-CHIP	2.2M 5% 1/10W	R2638	1-216-041-00	RES-CHIP	470 5% 1/10W
R2148	1-216-077-91	RES-CHIP	15K 5% 1/10W	R2639	1-216-079-00	RES-CHIP	18K 5% 1/10W
R2149	1-216-077-91	RES-CHIP	15K 5% 1/10W	R2640	1-216-041-00	RES-CHIP	470 5% 1/10W
R2164	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R2641	1-216-041-00	RES-CHIP	470 5% 1/10W
R2165	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R2642	1-216-079-00	RES-CHIP	18K 5% 1/10W
R2166	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R2643	1-216-079-00	RES-CHIP	18K 5% 1/10W
R2167	1-216-109-00	RES-CHIP	330K 5% 1/10W	R2644	1-216-079-00	RES-CHIP	18K 5% 1/10W
R2301	1-216-089-11	RES-CHIP	47K 5% 1/10W	R2645	1-216-357-00	METAL OXIDE	4.7 5% 1W
R2302	1-216-089-11	RES-CHIP	47K 5% 1/10W	R2646	1-216-357-00	METAL OXIDE	4.7 5% 1W
R2303	1-216-075-00	RES-CHIP	12K 5% 1/10W	R2647	1-216-083-00	RES-CHIP	27K 5% 1/10W
R2304	1-216-073-00	RES-CHIP	10K 5% 1/10W	R2648	1-216-083-00	RES-CHIP	27K 5% 1/10W
R2305	1-216-075-00	RES-CHIP	12K 5% 1/10W	R2649	1-216-075-00	RES-CHIP	12K 5% 1/10W
R2306	1-216-073-00	RES-CHIP	10K 5% 1/10W	R2650	1-216-089-11	RES-CHIP	47K 5% 1/10W
R2307	1-216-089-11	RES-CHIP	47K 5% 1/10W	R2651	1-216-049-11	RES-CHIP	1K 5% 1/10W
R2308	1-216-089-11	RES-CHIP	47K 5% 1/10W	R2652	1-216-025-11	RES-CHIP	100 5% 1/10W
R2309	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R2653	1-216-049-11	RES-CHIP	1K 5% 1/10W
R2310	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R2654	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2311	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	R2655	1-216-049-11	RES-CHIP	1K 5% 1/10W
R2312	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	R2656	1-216-083-00	RES-CHIP	27K 5% 1/10W
R2313	1-216-025-11	RES-CHIP	100 5% 1/10W	R2657	1-216-083-00	RES-CHIP	27K 5% 1/10W
R2314	1-216-025-11	RES-CHIP	100 5% 1/10W	R2658	1-216-083-00	RES-CHIP	27K 5% 1/10W
R2315	1-216-025-11	RES-CHIP	100 5% 1/10W	R2659	1-216-085-00	RES-CHIP	33K 5% 1/10W
R2316	1-216-025-11	RES-CHIP	100 5% 1/10W	R2660	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2601	1-216-009-91	RES-CHIP	22 5% 1/10W	R2662	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2602	1-216-009-91	RES-CHIP	22 5% 1/10W	R2663	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2604	1-216-043-91	RES-CHIP	560 5% 1/10W	R2801	1-216-113-00	RES-CHIP	470K 5% 1/10W
R2605	1-216-085-00	RES-CHIP	33K 5% 1/10W	R2802	1-216-041-00	RES-CHIP	470 5% 1/10W
R2606	1-216-043-91	RES-CHIP	560 5% 1/10W	R2804	1-216-113-00	RES-CHIP	470K 5% 1/10W
R2607	1-216-073-00	RES-CHIP	10K 5% 1/10W	R2805	1-216-041-00	RES-CHIP	470 5% 1/10W
R2608	1-216-097-11	RES-CHIP	100K 5% 1/10W	R2806	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R2609	1-216-073-00	RES-CHIP	10K 5% 1/10W	R2807	1-216-089-11	RES-CHIP	47K 5% 1/10W
R2610	1-216-077-91	RES-CHIP	15K 5% 1/10W	R2808	1-216-089-11	RES-CHIP	47K 5% 1/10W
R2611	1-216-085-00	RES-CHIP	33K 5% 1/10W	R2809	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R2612	1-216-357-00	METAL OXIDE	4.7 5% 1W	R2810	1-216-113-00	RES-CHIP	470K 5% 1/10W
R2613	1-216-357-00	METAL OXIDE	4.7 5% 1W	R2811	1-216-041-00	RES-CHIP	470 5% 1/10W
R2614	1-216-073-00	RES-CHIP	10K 5% 1/10W	R2813	1-216-113-00	RES-CHIP	470K 5% 1/10W
R2616	1-216-063-91	RES-CHIP	3.9K 5% 1/10W	R2814	1-216-041-00	RES-CHIP	470 5% 1/10W
R2618	1-216-295-11	SHORT	0	R2815	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R2619	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R2816	1-216-089-11	RES-CHIP	47K 5% 1/10W
R2620	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R2817	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R2621	1-216-009-91	RES-CHIP	22 5% 1/10W	R2818	1-216-089-11	RES-CHIP	47K 5% 1/10W
R2622	1-216-081-00	RES-CHIP	22K 5% 1/10W	R2819	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2623	1-216-039-00	RES-CHIP	390 5% 1/10W	R2820	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2624	1-216-085-00	RES-CHIP	33K 5% 1/10W			<RELAY>	
R2625	1-216-081-00	RES-CHIP	22K 5% 1/10W				
R2626	1-216-357-00	METAL OXIDE	4.7 5% 1W				
R2627	1-216-089-11	RES-CHIP	47K 5% 1/10W	RY2601	1-755-028-11	RELAY	
R2628	1-216-089-11	RES-CHIP	47K 5% 1/10W				
R2629	1-216-689-11	RES-CHIP	39K 5% 1/10W				



REF. NO.	PART NO.	DESCRIPTION	REMARK
<TERMINAL BOARD>			
TB2601	1-694-441-11	TERMINAL, PUSH	
TB2602	1-694-442-11	TERMINAL, PUSH	
<CRYSTAL>			
X2101	1-577-358-21	VIBRATOR, CERAMIC	

* A-1390-933-A S BOARD, COMPLETE			

<CONNECTOR>			
CN3001*	1-564-506-11	PLUG, CONNECTOR 3P	
<DIODE>			
D3001	8-719-109-89	DIODE MTZJ-T-77-5.6	
<SENSOR>			
S3001	1-528-911-21	BATTERY, SOLAR	

* A-1372-900-A HC BOARD, COMPLETE			

<CAPACITOR>			
C3301	1-117-720-11	CERAMIC CHIP 4.7μF	10V
<CONNECTOR>			
CN3301*	1-564-518-11	PLUG, CONNECTOR 3P	
<DIODE>			
D3301	8-719-158-15	DIODE UDZ-TE-17-5.6B	
D3302	8-719-158-15	DIODE UDZ-TE-17-5.6B	
<IC>			
IC3301	8-742-129-00	HYB IC SBX1971-51P	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>			
R3301	1-216-025-11	RES-CHIP 100	5% 1/10W
R3302	1-216-025-11	RES-CHIP 100	5% 1/10W

* A-1372-899-A HD BOARD, COMPLETE			

<CAPACITOR>			
C3401	1-163-038-11	CERAMIC CHIP 0.1μF	25V
<CONNECTOR>			
CN3401*	1-564-520-11	PLUG, CONNECTOR 5P	
CN3402*	1-564-518-11	PLUG, CONNECTOR 3P	
<DIODE>			
D3401	8-719-053-43	DIODE SLR-325VCT31 (STEREO)	
D3402	8-719-053-43	DIODE SLR-325VCT31 (TIMER/STAND BY)	
<SWITCH>			
S3401	1-571-532-21	SWITCH, TACTIL (POWER)	

* A-1372-897-A HA BOARD, COMPLETE			

<CONNECTOR>			
CN3101*	1-564-518-11	PLUG, CONNECTOR 3P	
<RESISTOR>			
R3101	1-208-778-11	METAL CHIP 680	0.5% 1/10W
R3102	1-208-782-11	METAL CHIP 1K	0.5% 1/10W
R3103	1-208-784-11	METAL CHIP 1.2K	0.5% 1/10W
R3104	1-208-788-11	METAL CHIP 1.8K	0.5% 1/10W
R3105	1-208-794-11	METAL CHIP 3.3K	0.5% 1/10W
R3106	1-208-802-11	METAL CHIP 6.8K	0.5% 1/10W
R3107	1-208-812-11	METAL CHIP 18K	0.5% 1/10W
<SWITCH>			
S3101	1-572-198-11	SWITCH, KEYBOARD (CH +)	

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

HA HB

REF. NO.	PART NO.	DESCRIPTION	REMARK																																																																																
S3102	1-572-198-11	SWITCH, KEYBOARD (CH -)	MISCELLANEOUS *****																																																																																
S3103	1-572-198-11	SWITCH, KEYBOARD (VOL +)																																																																																	
S3104	1-572-198-11	SWITCH, KEYBOARD (VOL -)																																																																																	
S3105	1-572-198-11	SWITCH, KEYBOARD (TV/VIDEO)																																																																																	
S3106	1-572-198-11	SWITCH, KEYBOARD (SET UP)																																																																																	
S3107	1-572-198-11	SWITCH, KEYBOARD (FLASH FOCUS)																																																																																	

* A-1372-898-A HB BOARD, COMPLETE ***** <CONNECTOR> CN3201* 1-564-526-11 PLUG, CONNECTOR 11P <DIODE> D3201 8-719-977-28 DIODE UDZS-TE17-10B D3202 8-719-977-28 DIODE UDZS-TE17-10B D3203 8-719-977-28 DIODE UDZS-TE17-10B D3204 8-719-977-28 DIODE UDZS-TE17-10B D3205 8-719-977-28 DIODE UDZS-TE17-10B D3206 8-719-977-28 DIODE UDZS-TE17-10B D3207 8-719-977-28 DIODE UDZS-TE17-10B D3208 8-719-977-28 DIODE UDZS-TE17-10B D3209 8-719-977-28 DIODE UDZS-TE17-10B D3210 8-719-977-28 DIODE UDZS-TE17-10B D3211 8-719-977-28 DIODE UDZS-TE17-10B D3212 8-719-977-28 DIODE UDZS-TE17-10B <JACK> J3201 1-565-929-11 TERMINAL BLOCK, S 3P (VIDEO 2 IN) <RESISTOR> R3201 1-208-755-11 METAL CHIP 75 0.5% 1/10W R3202 1-216-049-11 RES-CHIP 1K 5% 1/10W R3203 1-208-755-11 METAL CHIP 75 0.5% 1/10W R3204 1-208-755-11 METAL CHIP 75 0.5% 1/10W R3205 1-216-113-00 RES-CHIP 470K 5% 1/10W R3206 1-216-113-00 RES-CHIP 470K 5% 1/10W *****																																																																																			
REF. NO.	PART NO.	DESCRIPTION	REMARK																																																																																
△ 1-223-925-11 RESISTOR ASSY (HIGH-VOLTAGE) 1-251-321-12 SELECTOR, ANTENNA <tr><td colspan="4"> △ 1-452-790-21 NECK ASSY 1-500-021-11 CLAMP, SLEEVE FERRITE 1-529-830-11 SPEAKER (10CM) 1-529-831-11 SPEAKER (16CM) 1-529-832-11 SPEAKER (10CM COAXIAL) 1-543-653-11 CORE ASSY, BEAD(DIVISION TYPE) * 1-556-945-21 CABLE, P-P * 1-557-056-31 CABLE, P-P </td></tr> <tr><td colspan="4"></td></tr> <tr><td colspan="4"> △ 1-783-595-11 CORD, NOISE FILTER WITH POWER △ 8-598-955-13 BLOCK ASSY, HV HVB-1030 △ 8-733-601-25 CRT 07MZC5(G) (65XBR10W) △ 8-733-602-25 CRT 07MZC5(B) (65XBR10W) △ 8-733-603-25 CRT 07MZC5(R) (65XBR10W) △ 8-736-087-15 CRT 07MZC2(G) (57XBR10W) △ 8-736-090-05 CRT 07MZC4(B) (57XBR10W) △ 8-736-091-05 CRT 07MZC4(R) (57XBR10W) </td></tr> <tr><td colspan="4">*****</td></tr> <tr><td colspan="4">ACCESSORIES & PACKING MATERIALS *****</td></tr> <tr><td colspan="4">* 4-041-428-01 BAG, POLYETHYLENE</td></tr> <tr><td colspan="4">* 4-042-463-01 SHEET, PROTECTION</td></tr> <tr><td colspan="4">* 4-076-824-01 CUSHION (UPPER) (ASSY) (65XBR10W)</td></tr> <tr><td colspan="4">* 4-076-825-01 CUSHION (LOWER) (ASSY) (65XBR10W)</td></tr> <tr><td colspan="4">* 4-076-830-01 INDIVIDUAL CARTON (65XBR10W)</td></tr> <tr><td colspan="4">* 4-076-831-01 TRAY (65XBR10W)</td></tr> <tr><td colspan="4">* 4-076-834-01 CUSHION (UPPER) (ASSY) (57XBR10W)</td></tr> <tr><td colspan="4">* 4-076-835-01 CUSHION (LOWER) (ASSY) (57XBR10W)</td></tr> <tr><td colspan="4">* 4-076-840-01 INDIVIDUAL CARTON (57XBR10W)</td></tr> <tr><td colspan="4">* 4-076-841-01 TRAY (57XBR10W)</td></tr> <tr><td colspan="4">4-080-199-11 MANUAL, INSTRUCTION</td></tr> <tr><td colspan="4">4-080-199-21 MANUAL, INSTRUCTION</td></tr> <tr><td colspan="4">4-080-199-31 MANUAL, INSTRUCTION</td></tr> <tr><td colspan="4">REMOTE COMMANDER *****</td></tr> <tr><td colspan="4">1-476-420-11 REMOTE COMMANDER (RM-Y907)</td></tr>				△ 1-452-790-21 NECK ASSY 1-500-021-11 CLAMP, SLEEVE FERRITE 1-529-830-11 SPEAKER (10CM) 1-529-831-11 SPEAKER (16CM) 1-529-832-11 SPEAKER (10CM COAXIAL) 1-543-653-11 CORE ASSY, BEAD(DIVISION TYPE) * 1-556-945-21 CABLE, P-P * 1-557-056-31 CABLE, P-P								△ 1-783-595-11 CORD, NOISE FILTER WITH POWER △ 8-598-955-13 BLOCK ASSY, HV HVB-1030 △ 8-733-601-25 CRT 07MZC5(G) (65XBR10W) △ 8-733-602-25 CRT 07MZC5(B) (65XBR10W) △ 8-733-603-25 CRT 07MZC5(R) (65XBR10W) △ 8-736-087-15 CRT 07MZC2(G) (57XBR10W) △ 8-736-090-05 CRT 07MZC4(B) (57XBR10W) △ 8-736-091-05 CRT 07MZC4(R) (57XBR10W)				*****				ACCESSORIES & PACKING MATERIALS *****				* 4-041-428-01 BAG, POLYETHYLENE				* 4-042-463-01 SHEET, PROTECTION				* 4-076-824-01 CUSHION (UPPER) (ASSY) (65XBR10W)				* 4-076-825-01 CUSHION (LOWER) (ASSY) (65XBR10W)				* 4-076-830-01 INDIVIDUAL CARTON (65XBR10W)				* 4-076-831-01 TRAY (65XBR10W)				* 4-076-834-01 CUSHION (UPPER) (ASSY) (57XBR10W)				* 4-076-835-01 CUSHION (LOWER) (ASSY) (57XBR10W)				* 4-076-840-01 INDIVIDUAL CARTON (57XBR10W)				* 4-076-841-01 TRAY (57XBR10W)				4-080-199-11 MANUAL, INSTRUCTION				4-080-199-21 MANUAL, INSTRUCTION				4-080-199-31 MANUAL, INSTRUCTION				REMOTE COMMANDER *****				1-476-420-11 REMOTE COMMANDER (RM-Y907)			
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Supplement to Service Manual P/N 9-965-426-01

Subject: Update Adjustment Procedure for the RA-4W.

Note: Test equipment required:

1. Pattern Generator (with component (Y, Pb, Pr) outputs)
Ex. Leader 408 or Quantum Data 801GG

Important Notes:

- **Pre-Aging of the TV:** Age the TV set before attempting to adjust the set (especially focus) by one of the recommended amounts below.
- **Aging Conditions:** Apply an all white signal 100-IRE, minimum 30 min to a maximum of 1 hr. (over an hour, causes the CRTs to heat past the optimum adjustment point)
- **TV signal (with moving picture)** minimum 2 hrs (no maximum time applies). If this method of aging is used, be sure to coordinate with the customer/dealer beforehand so that the set is ready upon your arrival. Use Vivid picture mode setting on TV.
- **Order of Adjustments:** Please follow the order of adjustments as stated in this document. This will maximize results while minimizing readjustment.
- **Confirmation / Adjustment Method:** This procedure first instructs the technician to confirm whether an adjustment is necessary. The technician should only perform the adjustment if the confirmation indicates that it is required.
- **Method on how to Turn Off the CRTs:** To perform some adjustments, it will be necessary to turn off the CRTs, which can be done in the Service mode by doing the following: Select adjustment category "MCP1", adjustment item # 07 "RON", #08 "GON", or #09 "BON". The applicable CRT is on when its data is "01", and off when its data is "00".
- **Accessing the internal generator through the service mode.** Select Category PJE MODE using the 2 or 5 remote button. Repeated pressing of the remote button #6 will allow you to cycle through the crosshatch, dots, and white signal video pattern.

Service data adjustment to Improve Edge Enhancement in NTSC mode:

Change the Service data in both categories MCP4 and MCP5. (Categories)

The adjustment item "SYS" data should be changed from 2 to 1 in both TV and Video modes.

Write the new Service data settings.

Screen Adjustment G-2/ Sub-bright adjustment:

Equipment required: Darkened Room and/or a heavy blanket to cover the set.

Signal Applied/Input: Select Video 1 input / No signal applied

Adjust points: G2 (Screen Controls) VRs for RGB and Sub-Brightness register

Conditions: Darken Room preferred. If not possible, a blanket must cover the front of the screen.

- Standard Picture Mode (reset mode to ensure proper setting of this mode)
- Turn off ALL the CRT outputs in Service mode.

Confirmation Procedure:

1. To confirm proper setting (with all 3 CRTs OFF), the screen should ALMOST be at cut-off.
2. If not, check Sub-Bright Data in the service mode. Service data Range is usually 21 to 25 in the Service menu, category "MCP2", adjustment item 01 "SBRT".
3. If the picture is still not at almost cut-off, proceed to the adjustment procedure below.

Important Notes on G2 setup: It is **crucial** that the G2 adjustment be done as accurately as possible. If it is off even slightly, white balance and focus can be greatly affected. Also, if the G2 is set incorrectly, it may cause an intermittent video shutdown condition, due to the affect on the IK circuit.

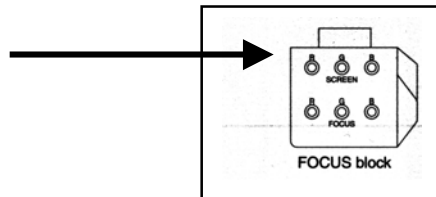
Therefore, the following procedure must be adhered to:

- The room should be as dark as possible.
- Also, a **blanket (standard heavy mover's blanket used to protect furniture) is required for this procedure.** The blanket must be placed over the technician and the front of the TV screen to minimize the ambient light. Only with this method can the technician see the correct adjustment level.

Adjustment Procedure:

1. Turn the green screen control on the Focus Block until retrace lines appear and gradually turn it back until the point where you can see the retrace line disappears, just before cutoff.
2. Turn the red screen control on the Focus Block until retrace lines appear and gradually turn it back until the point where you can see the retrace line disappears, just before cutoff.
3. Turn the blue screen control on the Focus Block until retrace lines appear and gradually turn it back until the point where you can see the retrace line disappears, just before cutoff.
4. **If the screen still appears too bright after proper G-2 adjustment, please adjust the sub-bright control down until screen cut-off.** (Service data Range is usually 21 to 25 in the Service menu, category "MCP2", adjustment item 01 "SBRT").

Screen Controls Located on Focus Block



Green, Red & Blue CRT 2 Pole Magnet Confirmation / Adjustment:

Equipment required: Pattern Generator

Signal Applied/Input: Dot Hatch Pattern (100-IRE) / Video 1 input

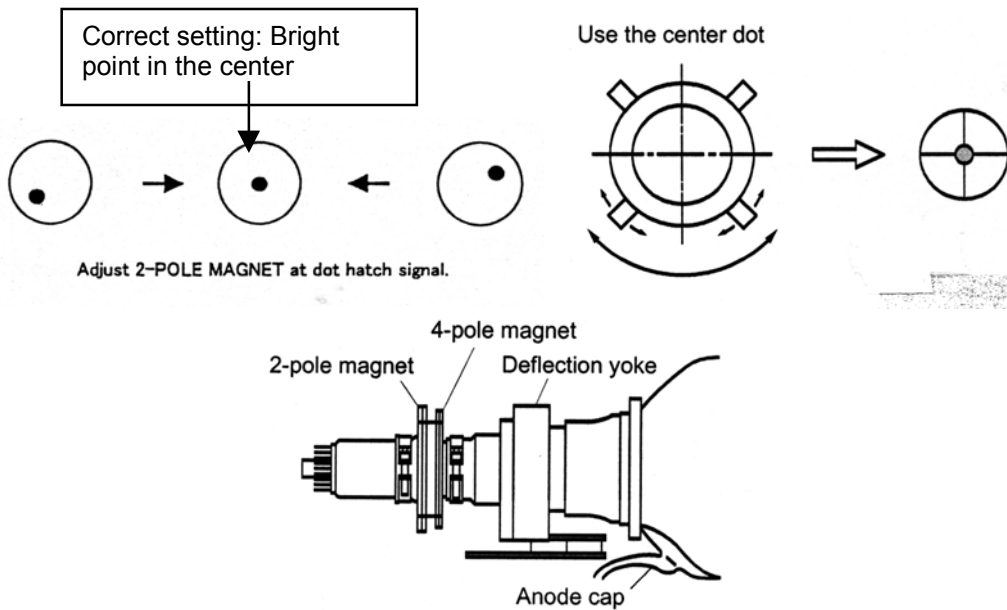
Adjust points: Confirmation: RGB Focus VRs Adjustment: 2 Pole Magnets on CRTs

Conditions: Brightness to 50% and Picture to 100%

Confirmation/ Adjustment Procedure for 2 Pole Magnet Adjustment:

1. Turn off Red and Blue CRTs.
2. Turn G VR to the CCW (over-focus) and view the center luminance point, which must be in the center of the dot. (See diagram below).
3. Rotate the VR back and forth to verify that the luminance point remains in the center. If it does, this adjustment is not required. If the luminance point does not remain in the center, you must perform the 2 Pole Magnet adjustment. Note: In the large majority of cases, this adjustment will not be needed.
4. Adjust the 2-Pole Magnet on the CRT to center the luminance spot.
5. Set the VR for best focus

6. **Perform the same procedures for the Red and Blue CRTs.**

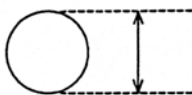


4-Pole Magnet Confirmation / Adjustment for the Green & Red & Blue CRTs:

(Same setup/conditions as for the 2-Pole magnet adjustment)

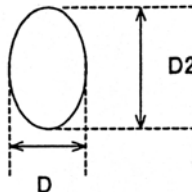
1. Turn off the red and blue CRTs.
2. Turn the green focus control on the Focus Block to the CW and the spot will become larger.
3. The dot should be round. If it is oval, perform the following steps.
4. Adjust the two tabs (the tabs towards the bell of the CRT) until the spot becomes round.
5. **Red Adjustment: Perform the same procedure for the Red CRT 4-Pole Magnet. Adjust if necessary, see following illustration.**
6. **Blue Adjustment: Perform the same procedure as the Green CRT, however the shape should be a slight vertical oval (not round) in the center of the screen. Adjust if necessary, see the following illustration.**

4. RED , GREEN



Red and Green dot should be round

5. BLUE



The Blue dot should be Oval in shape. The vertical should be 1.5 x the horizontal size

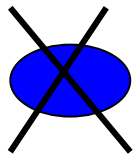
Blue De-Focus adjustment (The blue focus needs to be slightly defocused so to produce a more pleasing picture). Same setup/conditions as for the previous adjustment, except select the **Vivid mode** (reset the Vivid Mode to ensure proper settings).

Confirmation / Adjustment:

Correct: blue dot in center of the screen has a vertical oval



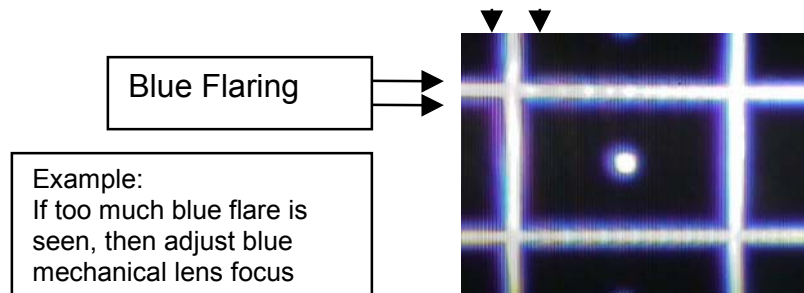
Incorrect: blue dot in center of the screen has a horizontal oval



1. Adjust the blue focus VR to the CW (under focus) slightly while looking at the left side of the screen.
2. When the blue horizontal luminance line (not flare) starts to increase in size, stop turning the VR. The Vertical or Horizontal width of the blue luminance line should be no larger than x1.5 the size of the green line.
3. Turn the green CRT back on to confirm the size of blue in reference to green.

NOTE: This adjustment will of course make a slight blue outline visible on the white lines, however an additional blue flare may be seen (*halo around the blue luminance lines*). If the additional blue flaring is seen, (see picture below) it may be necessary to adjust the blue lens mechanical focus. The blue flare should be minimized as much as possible; adjust to best position, which has the least amount of flare.

See photo below: Far left side should have a slight blue edge in Vivid mode with a 100-IRE hatch.



CRT/ Lens Focus adjustment:

Equipment required: Pattern Generator

Signal Applied/Input: All white 100-IRE signal for aging & crosshatch for adjustments

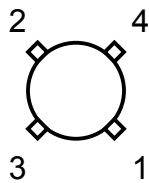
Adjust points: Mechanical lens adjust and adjustment of the electrical focus VRs

Conditions: Set must be pre-aged as describe in the front section of this document, under Important Notes.

1. Apply a crosshatch pattern to one of the video inputs.
2. Start with the Green CRT, therefore turn off the other two CRTs in the Service mode.
3. Two persons, one to adjust the lens, and one to watch the front of the picture will achieve better overall adjustment results. If a second person is not available, apply a white sheet of paper on the inside of the screen. Then by looking at the paper's reflection in the sets mirror, adjusting the mechanical lens as in the next step.
4. Adjust the mechanical lens of the Green CRT first (loosen the wing nut on the lens. Adjust the lens to achieve proper (equal) balance between left and right sides of the picture, while also achieving good center focus. Focus in the center area of the screen should be better than in the corner areas.
5. If proper balance cannot be achieved, then loosen all lens screws and re-seat the lens (see the drawing below for the locations of the lens screws). Then create a just-

snug condition (*each screw's washer is slightly compressed*) with the screws and try to adjust the focus again.

ONLY IF PROPER BALANCE STILL CANNOT BE ACHIEVED, remove lens screws and rotate the lens 90°. Reinstall the lens screws in the new pilot holes. The new pilot holes will not have had screws installed previously, so you should expect to feel some resistance while installing the screws. Tighten the screws by following torque sequence shown in the drawing below, but do not completely seat the screws (over-torque). Perform lens re-adjustment again. With a 100-IRE crosshatch pattern, you may see a slight amount of blue or red halo on the green crosshatch lines. This is caused by the prism effect of the green CRT lens. However, try to minimize the amount of blue or green flare seen on the screen while maintaining sharper more defined lines. If red halo is seen on the green lines re-adjust the focus lens to eliminate reddish colored flare.



←Torque sequence applied to lens. If slight tilt / rocking motion is noticed, lean lens to the # 3 or # 4 position and begin torque sequence. Start at position No.1 and tighten until each screw's washer is slightly compressed.

1. **IMPORTANT:** After the mechanical focus is performed, adjust the electrical focus on the focus block for a final touch-up. Once again, try to achieve proper balance between center and corners while keeping center slightly better.
- 2.** Red mechanical lens adjustment should apply the same method as described for green, except for the color of the flare, which will be red to a yellowish red. Try to minimize or eliminate this flare as much as possible.

White balance adjustment:

Equipment required: pattern generator with 100 IRE all white pattern.

Optional: white balance meter.

Signal Applied/Input: 100 IRE all white pattern

Adjust points: Registers accessed in the service mode

Conditions:

This adjustment must be done in Standard picture mode for both the Neutral and Warm settings, however, please check color tracking to determine if this adjustment is necessary. To do this, apply a B&W signal and check it at both high and low brightness settings to verify the grayscale and white levels do not have color tinting. If the set checks good for color tracking, it is not necessary to do this procedure. Please note if the G2 was adjusted, it is most likely the white balance should be adjusted.

Provided below are two methods to adjust white balance. One with a white balance meter (preferred) and one without.

Preliminary setup for White Balance Confirmation / Adjustment

In Standard picture mode

All other user controls at their reset condition. To reset the user controls, press the reset button on the remote control while Standard picture mode is active. Under the Standard Mode Menu (customer menu/user controls), select "COLORTEMP" and set it to Neutral. Check the white balance in both high (100-IRE) and low (20-IRE) IRE all white signal. If a low IRE signal is not available, then reduce the picture level until an appearance of 20-IRE signal is seen on the screen. This is approx. 3 bars (display dashes that illustrate level) up from minimum picture adjustment on the picture bar-graph display on the screen. Proceed to the adjustment section below if the color temperature (tracking) appears to be incorrect for either the high or low IRE input signal. A white balance meter can be used to confirm the white balance if available. If adjustment is required, perform the white balance adjustments by either method below.

Adjustment with a white balance meter: (Preferred Method)

1. For the High-level IRE all white signal adjust R/G to 1.05 and B/G to 0.9. (Adjust by RDRIV, BDRIV in MCP1)
2. For the Low-IRE adjustment, adjust picture level to 3 bars up from minimum on the picture bar-graph display if the IRE input signal level cannot be adjusted to 20-IRE. (Adjust RCUT, and BCUT in adjustment category "MCP1" the same as above, i.e. R/G to 1.05 and B/G to 0.9.
3. After low-level white adjustment (cutoff adjustment) repeat the high level adjustment to achieve proper white balance tracking.
4. Confirm the adjustment with COLORTEMP set to WARM mode. Picture should become slightly more reddish; if not, repeat the adjustments shown above. In addition, confirm adjustment by switching to a black and white broadcast movie if available.

Adjustment without white balance meter:

1. The 100 IRE all-white signal must be adjusted by eye. Adjust RDRIV, BDRIV in MCP1 to make the white as pure as possible.
2. Adjust picture level to 3 bars up from minimum on the picture bar-graph display if the IRE input signal level cannot be adjusted to 20 IRE. Adjust RCUT, and BCUT in adjustment category "MCP1" by eye to make the gray as pure as possible.
3. After low-level white adjustment (cutoff adjustment) repeat the high level adjustment to achieve proper white balance tracking.
4. Confirm the adjustment with COLORTEMP set to WARM mode. The picture should be slightly more reddish; if not, repeat the adjustments above. Please also confirm adjustment by switching to black and white broadcast movie if available. If a B&W signal is not available, turn the color off using the customer controls. In some sets, the customer controls may not entirely eliminate all color, thus in this case, an external B&W signal needs to be applied. Below are typical white balance data ranges for each model.

ADJ.	KP65XBR10W	KP57XBR10W
RDRIV	28~33	35~40
BDRIV	22~23	15~20
RCUT	51~57	55~60
BCUT	40~42	32~38

Geometry/ Convergence adjustment:

Equipment required: pattern generator (should have 1080i Y,Pb,Pr capability)

Signal Applied/Input: Crosshatch (for 1080i adjustment, signal must be applied to Video 5 input)

Adjust points: Registers accessed in the service mode

Conditions: Multiple Modes will require to be checked for mis-convergence and geometry.

1. **Normal/Full**
2. **Wide-Zoom**
3. **Zoom**
4. **1080i mode: (Video 5 input Only)**

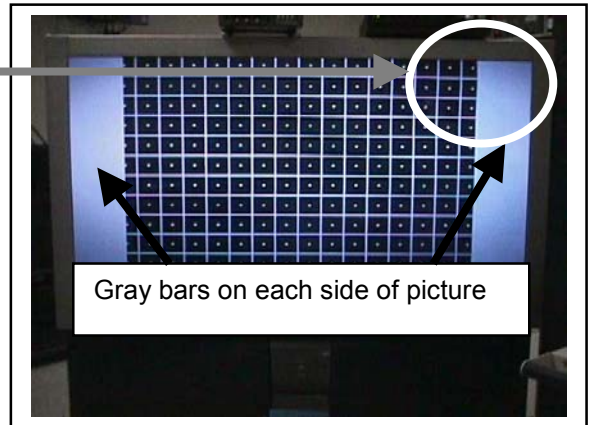
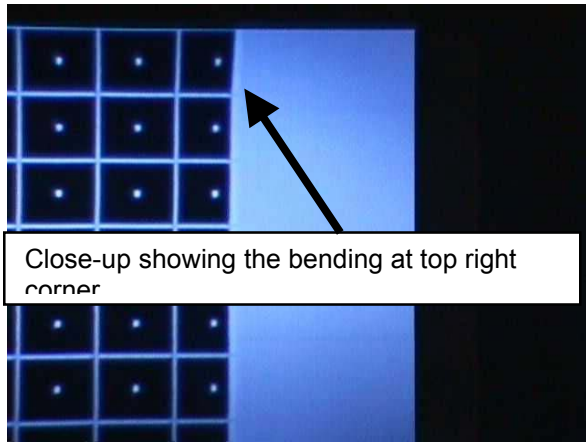
IMPORTANT NOTE: For each mode, use the remote to enter the modes above (in the order listed) and check for correct geometry and convergence. If adjustment is required, use the Fine Adjustment Mode to correct the distortion. After adjusting each mode (while still in the Fine Adjust Mode) write the data into memory (Muting, then Enter) and then activate the Flash Focus (button on front of set) before going to the next mode.

- Either darken the room or shield the screen from ambient light so the Flash Focus works properly.
- Do not adjust sizing, position or centering, as it may cause mis-operation of the Flash Focus circuit, causing major convergence and geometry mis-adjustment.

Start with the Normal Mode (this will also adjust the Full mode simultaneously. Full and Normal modes share the same adjustment data). Special Geometry adjustments are required in Normal mode (4:3 mode with gray bars on sides):

1. Touch up top and bottom areas where the gray bars begin. Adjust these areas as needed in the fine adjustment mode (see Fine Mode Adjust in the Reference Section), green first, followed by red and blue. This will ensure gray bar edges are straight in 4:3 mode. The inboard edges of the gray bars should be completely straight, top to bottom. See following illustrations:





2. Change Normal mode to FULL mode and adjust all four corners to straighten out vertical lines at the sides of the screen.
3. Also adjust the convergence as needed in all modes. Pay special attention to center outside areas.
4. While still in the Fine adjust Mode, write the data into memory and then activate Flash Focus on the front of the set.

Check / Adjust Wide Zoom Mode: If the mode checks OK, continue to other modes, if not, please adjust in Fine Mode and Write the data into memory and then activate Flash Focus on the front of the set.

Very Important:

If Wide Zoom mode needs to be adjusted and data is written into memory, the set will automatically resets VSCO in category VDSP to 0 FOR ALL MODES. Wide Zoom mode uses data 0 for VSCO, however, you must manually set the data back to 7 in ALL the other modes or else the vertical size adjustment will be incorrect.

Check / Adjust Zoom Mode: If the mode checks OK, continue to other modes, if not, please adjust in Fine Mode and Write the data into memory and then activate Flash Focus on the front of the set.

Check / Adjust the 1080i Mode: To be able to check and adjust this mode, you must either have a 1080i video signal or a 1080i generator. If you do not have either of these, you cannot perform this adjustment, therefore proceed to the next adjustment. If you do have either one of these items, then proceed with this adjustment.

Apply a 1080i signal to the Video 5 input and go into service mode. Turn on internal crosshatch signal and adjust as needed. Please note, a 1080i signal MUST BE APPLIED to the Video 5 input for the internal crosshatch generator to enter the 1080i mode. If this is not done, the pattern displayed will not be 1080i but stay in the NTSC 480i mode. Please note: If a 1080i crosshatch generator is available, use this signal to adjust rather than using the internal pattern (this is a preferable method). If the mode checks OK, continue to the next step, if not, adjust the set in the Fine Mode. After any new data is written (by pressing "MUTING: then "ENTER"), press "Flash Focus" in service mode so that TV can calculate the new offset data.

Final Check:

Now check each mode with a live video signal to verify correct operation. If problems still exist, please readjust. If a 1080i source is available, please check this mode.

Final steps please enter the menu and select the **Video Icon** and view the set in **Standard** Picture Mode and then in the **Vivid** Picture mode. When **Vivid** is selected, please lower the brightness level slightly (10%). Blacks should appear black, not gray.

SUPPORT DOCUMENTATION SECTION:

SERVICE MANUAL INFORMATION

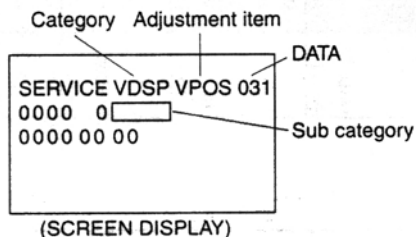
- **Method of setting the Service Adjustment Mode.**
- **Writing new data into memory**
- **Memory confirmation Method**
- **Adjustment buttons on the remote:**
- **Fine Adjustment Mode for Green, Red and Blue Convergence and Geometry**
- **Auto-Registration Error Code list**

- **Method of setting the Service Adjustment Mode.**

SERVICE MODE PROCEDURE

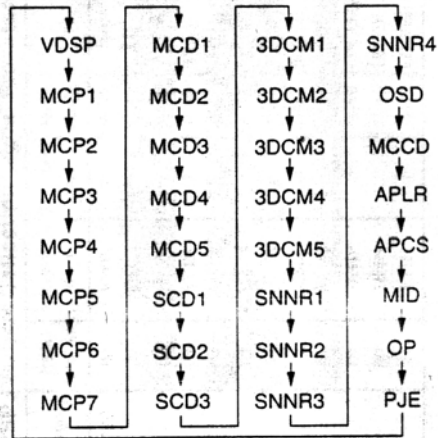
1. Standby mode. (Power off)
2. **DISPLAY** → **5** → **VOL (+)** → **TV POWER**
on the Remote Commander.
(Press each button within a second.)

SERVICE MODE ADJUSTMENT



3. The screen displays the item being adjusted.
4. The category is reached by using the remote buttons 2 and 5.
5. The Adjustment item is selected using remote buttons 1 and 4.
6. The Data is changed using remote buttons 3 and 6.

Using the remote 2 or 5 button you will search through the category shown in the chart below.



The acronyms above are the titles of the different adjustment categories. See the Service Mode charts for the definition of the various categories. Example: VDSP (Vertical Deflection Signal Processor).

1. If you want to recover the original data (if you did not save any changes) press the **0** then **Enter** button on the remote.

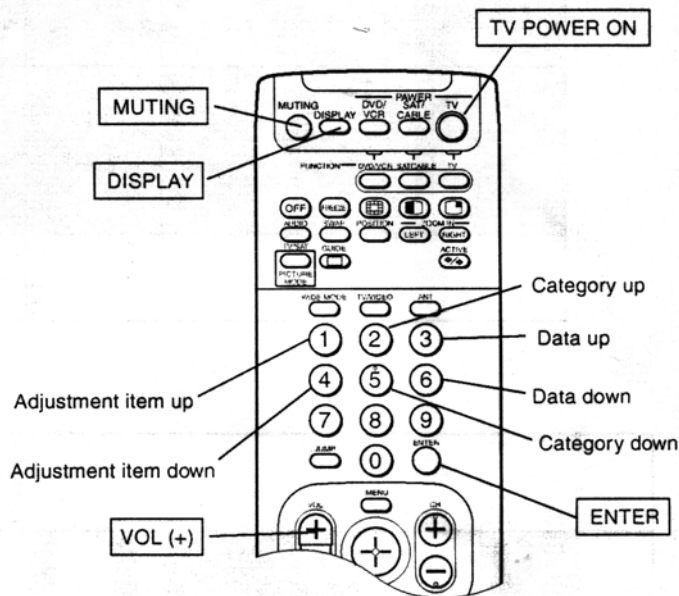
Writing new data into memory.

1. After adjusting the data it must be placed into memory (writing). This is done using the **muting** button (the data turns red) then the **Enter** button. (The data turns green)

Memory confirmation Method:

1. After finishing all adjustments and saving the data changes, remove the AC plug from the outlet, and then plug in again.
2. Turn unit on to Service Mode.
3. Check the data and confirm it retained the changes you made.

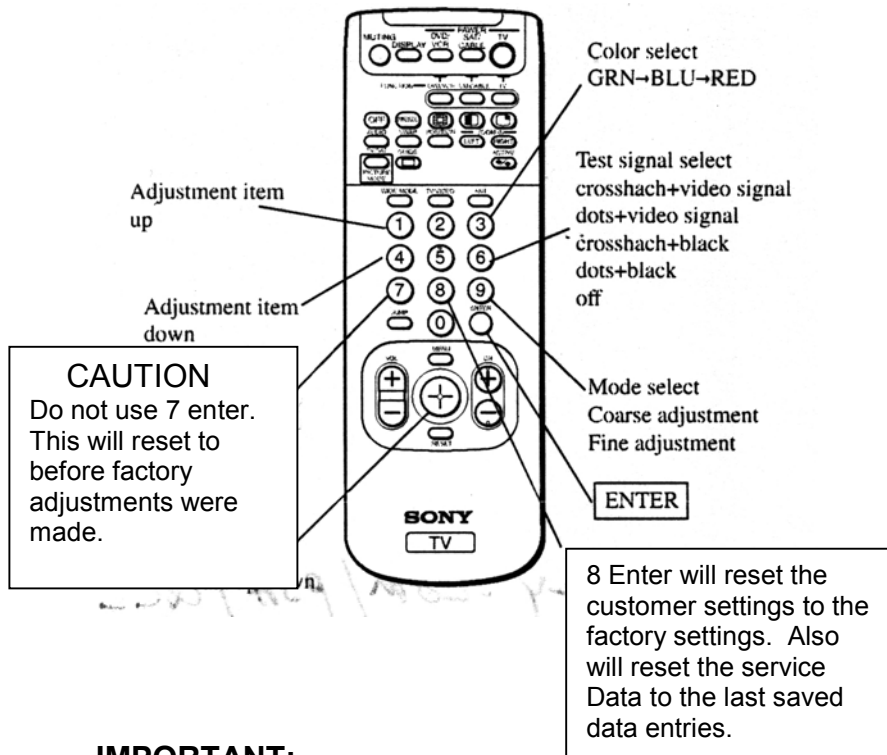
Adjustment buttons on the remote:



RM-Y907

Note: When the category PJE is selected, which displays an internally generated signal, several buttons on the remote commander will have different functions then listed above. Therefore, when in the PJE Mode, refer to section Registration Adjustment (PJE). Function of buttons of remote commander for PJE mode

Function of the Remote Buttons in PJE Mode



IMPORTANT:

Separate adjustments are required for the multiple modes and MUST be done in the following order. (Each mode will require a separate adjustment.)

Full (Normal) Mode
Wide Zoom Mode
Zoom Mode
1080I (video 5 input mode)

In all these modes, both color and geometry adjustments are required.

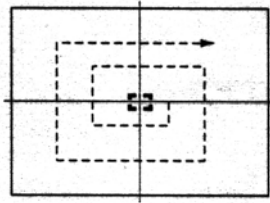
In order to do the 1080I (Video 5) mode adjustment, you must follow this procedure.
Connect green component from the 1080 generator to the green video 5 input.

Video 5 forced 1080I mode setting OP 03 1080 to 001 in the Service Mode.

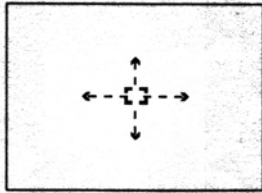
Fine Adjustment Mode for Green, Red and Blue Convergence and Geometry:

1. Press the 9 button on the remote. This puts you in the fine mode.
The green cursor (in the green mode) appears on the center of the screen.
(Pressing the 3 button will change the mode to Red or Blue)

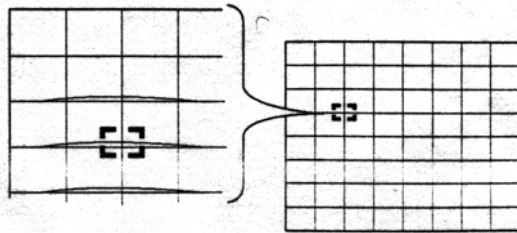
- Using the remotes 1 or 4 button, or the remote joystick, moves the cursor (See below) around the screen in a square-pattern.



Pressing the remote joystick the cursor turns green to white. When it is white the cursor can be moved up and down left or right around the screen.



Press once again the joystick button and the cursor stops and returns green, and you can adjust the miss-convergence in the cursor area.



Press the remote 9 button again to exit the fine mode and revert back to the coarse mode. Store the new adjustment data values by using the remote buttons **Muting** then **Enter**.

IMPORTANT:

The adjustments above must be repeated for the different modes in the order below.

Full (Normal) Mode

Wide Zoom Mode

Zoom Mode

1080i (video 5 input mode)

In all these modes, both color and geometry adjustments are required.

Final Check:

- Store the new adjustment data values by using the remote buttons **Muting** then **Enter**.
- Press the FLASH FOCUS button on the front panel.
(The Offset values are now automatically stored.)
- Check that no error message appears.
- If you get an error check the centering adjustment.
- See the Auto Registration Error Code List for an explanation of the error code displayed.

3-11. AUTO REGISTRATION ERROR CODE LIST

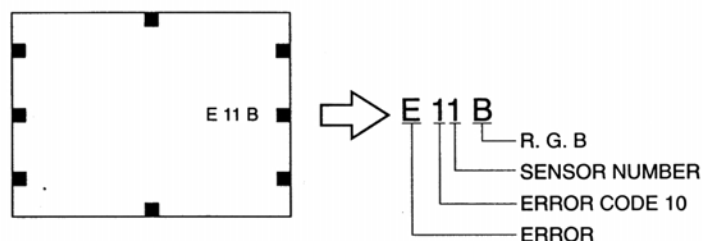
If an error code is displayed after the set has been fully adjusted, correctly, please check the following items: position, tilt and sizing. If either of these adjustments are off, even slightly, the auto-registration pattern will not hit the four sensors properly. This occurs when the internal generator patterns is being flashed on the screen for the sensors to read. Therefore, auto registration (called auto-focus) cannot operate properly causing an error code to be displayed. In order for this function to operate properly, correct position, tilt and size must be adjusted properly.

[ERROR CODE LIST]

ERROR CODE	DISCRIPTION	NOTE
00	No Error	
10	Sensor Output Level Low	* Check wiring, beam position, sensor.
20	Sensor Output Level High	* Check OP-amp circuit.
30	Adjustment Loop Counter Overflow	0 : "CENT V" 1 : "CENT H" 2 : "SKEW V" 3 : "SKEW H"
40	Regi Data Overflow	Same as Loop Counter Overflow
50	Regi Data Overflow	Same as Loop Counter Overflow
60	Offset Overflow	Same as Loop Counter Overflow * Check beam position. If need, adjust "PWM2" for H error, "V CENT (main)" for V error. * "PWM2" is usually 34 or 36.
70	Offset Overdraw	Same as Counter Overflow * Check beam position. If need, adjust "PWM2" for H error, "V CENT (main)" for V error.
80	Green "V SKEW" too tilt	* Adjust Green beam righ or left sensopr, or Green DY tilt.

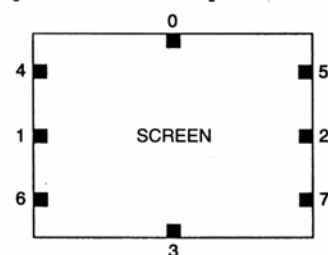
* In case of multiple error, last error is displayed.

• ERROR CODE SCREEN DISPLAY



* Error code will be displayed on center of screen for 3 seconds.

[SENSOR POSITION]



- 0 : UPPER SENSOR
- 1 : LEFT SENSOR
- 2 : RIGHT SENSOR
- 3 : LOWER SENSOR
- 4 : UL SENSOR
- 5 : UR SENSOR
- 6 : LL SENSOR
- 7 : LR SENSOR

• ERROR CODE DISPLAY IN REGI SERVICE MODE

